

Jan - Delaval

Access DB# 121534

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabika Ong Examiner #: 74141 Date: 5/7/04
Art Unit: 1606 Phone Number (30) 201-622 Serial Number: 10/052,908
Mail Box and Bldg Room Location: M-100 Rm. 4445 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

MEJ

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or name of the invention. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc. if known. *Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Methods of sterilizing with decarboxylic acids
Inventors (please provide full names): Singh, W. et al.

Earliest Priority Filing Date: 12/8/2000 Dev. of 09/1733,611

* Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- Please search for
- (1) composition containing one or more
decarboxylic acids. (any use)
 - (2) Use for Sterilization, disinfectant etc.

Please do Text + Inventor Search.
May include internet.

Thank you

STAFF USE ONLY

Searcher Jan

Searcher Phone # 22504

Search Location _____

Date Searcher Picked Up 5/8

Date Completed 5/8

Searcher Prep & Review Time _____

Client Prep Time 10

Online Time +3X

PTO-501 (4-93)

Type of Search	Vendors and cost where applicable
NA Sequence (#) _____	STN <input checked="" type="checkbox"/>
AA Sequence (#) _____	Dialog _____
Structure (#) <input checked="" type="checkbox"/>	Questel/Orbit _____
Bibliographic _____	Dr.Link _____
Litigation _____	Lexis/Nexis _____
Fulltext _____	Sequence Systems _____
Patent Family _____	WWW/Internet _____
Other _____	Other (specify) _____

=> fil reg
FILE 'REGISTRY' ENTERED AT 16:08:14 ON 08 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAY 2004 HIGHEST RN 680859-76-1
DICTIONARY FILE UPDATES: 7 MAY 2004 HIGHEST RN 680859-76-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

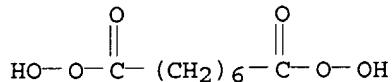
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide can tot 17

L7 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
RN 28317-47-7 REGISTRY
CN Octanediperoxoic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Peroxysuberic acid (6CI, 7CI)
OTHER NAMES:
CN Dipersuberic acid
FS 3D CONCORD
MF C8 H14 O6
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:145669
REFERENCE 2: 130:268876
REFERENCE 3: 128:140518
REFERENCE 4: 121:244251
REFERENCE 5: 117:90115
REFERENCE 6: 77:113764

REFERENCE 7: 56:79083

REFERENCE 8: 51:66398

L7 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN

RN 28317-46-6 REGISTRY

CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Peroxyglutaric acid (6CI)

OTHER NAMES:

CN Diperglutaric acid

CN Diperoxyglutaric acid

CN Perglutaric acid

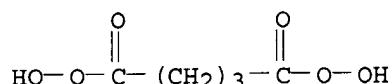
FS 3D CONCORD

MF C5 H8 O6

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

51 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

51 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:82213

REFERENCE 2: 139:256703

REFERENCE 3: 138:390861

REFERENCE 4: 137:175031

REFERENCE 5: 137:145669

REFERENCE 6: 136:279033

REFERENCE 7: 136:135829

REFERENCE 8: 135:253251

REFERENCE 9: 135:127208

REFERENCE 10: 135:97456

L7 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN

RN 5824-51-1 REGISTRY

CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

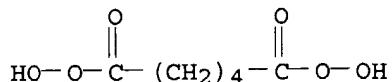
CN Peroxyadipic acid (6CI, 7CI, 8CI)

OTHER NAMES:

CN Adipic diperoxyacid

CN Diperadipic acid

CN Diperoxyadipic acid
 CN Peradipic acid
 FS 3D CONCORD
 MF C6 H10 O6
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, IFICDB, IFIPAT,
 IFIUDB, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

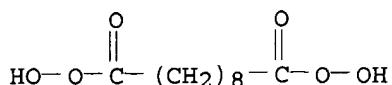


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

58 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 58 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:354579
 REFERENCE 2: 137:145669
 REFERENCE 3: 136:279033
 REFERENCE 4: 136:135829
 REFERENCE 5: 135:82069
 REFERENCE 6: 135:82067
 REFERENCE 7: 135:78599
 REFERENCE 8: 133:79452
 REFERENCE 9: 133:3966
 REFERENCE 10: 132:156320

L7 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 5796-85-0 REGISTRY
 CN Decanediperoxoic acid (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Peroxysebacic acid (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN Diperoxysebacic acid
 CN Dipersebacic acid
 CN Persebacic acid
 FS 3D CONCORD
 MF C10 H18 O6
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMLIST, IFICDB, IFIPAT,
 IFIUDB, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

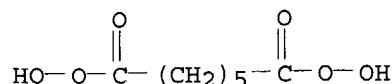


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

42 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 42 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:354579
 REFERENCE 2: 136:279033
 REFERENCE 3: 133:79452
 REFERENCE 4: 133:3966
 REFERENCE 5: 129:246906
 REFERENCE 6: 128:238644
 REFERENCE 7: 128:140518
 REFERENCE 8: 127:105399
 REFERENCE 9: 122:30236
 REFERENCE 10: 121:194515

L7 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 2455-27-8 REGISTRY
 CN Heptanediperoxoic acid (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Peroxypimelic acid (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN Diperpimelic acid
 FS 3D CONCORD
 MF C7 H12 O6
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



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5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:145669
 REFERENCE 2: 130:268876

REFERENCE 3: 128:140518

REFERENCE 4: 77:113764

REFERENCE 5: 51:66398

L7 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN

RN 1941-79-3 REGISTRY

CN Nonanediperoxoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Peroxyazelaic acid (6CI, 7CI, 8CI)

OTHER NAMES:

CN Azelaic diperacid

CN Diperazelaic acid

CN Diperoxyazelaic acid

FS 3D CONCORD

MF C9 H16 O6

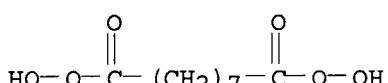
CI COM

LC STN Files: BEILSTEIN*, BIOBUSINESS, CA, CAOLD, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

58 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

58 REFERENCES IN FILE CAPLUS (1907 TO DATE)

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:354579

REFERENCE 2: 137:145669

REFERENCE 3: 134:149334

REFERENCE 4: 130:256816

REFERENCE 5: 130:254092

REFERENCE 6: 130:143594

REFERENCE 7: 130:130068

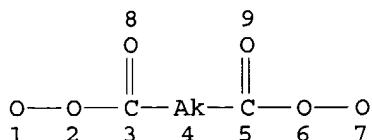
REFERENCE 8: 129:246906

REFERENCE 9: 128:140518

REFERENCE 10: 127:105399

=> d sta que l10

L8 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 1
 CONNECT IS M1 RC AT 7
 DEFAULT MLEVEL IS ATOM
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L10 387 SEA FILE=REGISTRY CSS FUL L8

100.0% PROCESSED 3434 ITERATIONS
SEARCH TIME: 00.00.01

387 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 15:38:09 ON 08 MAY 2004)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:38:20 ON 08 MAY 2004
 E DIPERGLUTARIC ACID/CN
 L1 1 S E3
 E DIPERADIPIC ACID/CN
 L2 1 S E3
 E DIPERPIMELIC ACID/CN
 L3 1 S E3
 E DIPERSUBERIC ACID/CN
 L4 1 S E3
 E DIPERSEBACIC ACID/CN
 L5 1 S E3
 E DIPERAZELAIC ACID/CN
 L6 1 S E3
 L7 6 S L1-L6
 L8 STR
 L9 18 S L8 CSS SAM
 L10 387 S L8 CSS FUL
 SAV L10 QAZI052/A
 L11 106 S L10 AND NC>=2
 L12 82 S L10 AND (PMS OR MXS OR IDS)/CI NOT L11
 L13 199 S L10 NOT L11,L12
 L14 36 S L13 AND NR>=1
 L15 163 S L13 NOT L14

FILE 'HCAPLUS' ENTERED AT 15:43:57 ON 08 MAY 2004
 L16 142 S L7
 L17 544 S L15
 L18 37 S L14
 L19 20 S (DIPERGLUTARIC OR DIPERADIPIC OR DIPERPIMELIC OR DIPERSUBERIC
 L20 35 S (PERGLUTARIC OR PERADIPIC OR PERPIMELIC OR PERSUBERIC OR PERS
 L21 43 S (DIPEROXYGLUTARIC OR DIPEROXYADIPIC OR DIPEROXPIMELIC OR DIP
 L22 53 S (PEROXYGLUTARIC OR PEROXYADIPIC OR PEROXPIMELIC OR PEROXYSUB

L23 24 S (PENTANEDIPOEROXOIC OR HEXANEDIPOEROXOIC OR HEPTANEDIPOEROXOIC O
 L24 579 S L16-L23
 L25 1 S DIPERCARBOXYLIC ACID
 L26 72 S (CARBOXYLIC#(L)ACID#)/CW (L) (DIPEROX? OR DI(L) PEROX?)
 L27 639 S L24-L26

FILE 'REGISTRY' ENTERED AT 15:50:48 ON 08 MAY 2004

L28 1 S MAGNESIUM SULFATE/CN
 L29 1 S SODIUM SULFATE/CN
 L30 22705 S 7664-93-9/CRN
 L31 319 S L30 AND MG/ELS
 L32 1591 S L30 AND NA/ELS
 L33 32 S L31 AND 4/ELC.SUB
 L34 33 S L32 AND 4/ELC.SUB
 L35 65 S L33,L34
 L36 55 S L35 NOT (MNS OR PMS OR CCS OR AYS OR IDS)/CI
 L37 13 S L36 AND 2/NC
 L38 42 S L36 NOT L37
 L39 32 S L38 NOT H2O2
 L40 31 S L39 NOT MXS/CI
 L41 33 S L28,L29,L40

FILE 'HCAPLUS' ENTERED AT 15:53:22 ON 08 MAY 2004

L42 23 S L41 AND L27
 L43 65 S (NA2SO4 OR MGSO4 OR (NA OR NA2 OR SODIUM OR DISODIUM OR MG OR
 E ALKALINE EARTH SALT/CT
 E E4+ALL
 L44 17 S L27 AND E5,E6,E4+NT,OLD,PFT
 E E77+ALL
 L45 5 S L27 AND E6+NT
 E ALKALI METAL SALT/CT
 E E4+ALL
 L46 95 S L27 AND E5,E6,E4+OLD,NT,PFT
 E E217+ALL
 L47 9 S L27 AND E6+NT
 L48 138 S L42-L47
 E LYNNTECH/PA, CS
 L49 104 S E3-E25
 E LYNN TECH/PA,CS
 E SINGHW/AU
 E SINGH W/AU
 L50 28 S E3,E8,E15-E18
 E GILETTO A/AU
 L51 15 S E3,E4
 E HITCHENS G/AU
 L52 48 S E4,E5
 L53 2 S L27 AND L49-L52
 L54 7 S L27 AND EXOTHERM?
 L55 142 S L48,L54
 L56 139 S L55 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
 L57 16 S L56 AND ?POWD?
 L58 5 S L56 AND ?COLLOID?
 L59 7 S L56 AND ?CRYST?
 L60 1 S L56 AND ?TABLET?
 L61 28 S L57-L60
 L62 27 S L61 AND L16-L18
 L63 2 S L61 AND L25,L26
 L64 28 S L62,L63
 E DISINFECT/CT
 E E12+ALL
 L65 1565 S E1
 E E2+AL
 E E3+ALL

L66 13112 S E2-E4,E1+OLD,NT,PFT
 E E8+ALL
 L67 2594 S E3+NT
 E E6+ALL
 L68 39330 S E1+NT
 E E29+ALL
 E E9+ALL
 L69 53898 S E5-E8,E4+NT
 L70 7 S L56 AND L65-L69
 L71 37 S L27 AND L65-L69
 L72 35 S L71 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
 L73 65 S L53,L64,L70,L71,L72
 L74 63 S L73 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
 L75 33 S L74 AND (DISINFECT? OR ANTISEPT? OR STERIL?)
 L76 28 S L74 AND (?POWD? OR ?COLLOID? OR ?CRYST? OR ?TABLET?)
 L77 26 S L74 AND STABIL?
 L78 18 S L74 AND STABL?
 L79 0 S L74 AND ?STANN?
 L80 2 S L73 NOT L74
 L81 63 S L74-L78
 L82 58 S L81 AND P/DT
 L83 10 S L82 AND US/PC.B
 L84 5 S L81 NOT L82
 L85 53 S L81,L82 NOT L83

FILE 'REGISTRY' ENTERED AT 16:08:14 ON 08 MAY 2004

=> fil hcaplus
 FILE 'HCAPLUS' ENTERED AT 16:09:15 ON 08 MAY 2004
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FILE COVERS 1907 - 8 May 2004 VOL 140 ISS 20
 FILE LAST UPDATED: 7 May 2004 (20040507/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L83 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:595512 HCAPLUS
 DN 137:145669
 ED Entered STN: 09 Aug 2002
 TI Methods of sterilizing with dipercarboxylic acids
 IN Singh, Waheguru Pal; Giletto, Anthony; Hitchens, G. Duncan
 PA USA
 SO U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

DT Patent
 LA English
 IC ICM A61K031-19
 NCL 514557000
 CC 63-8 (Pharmaceuticals)
 Section cross-reference(s) : 23

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002107288	A1	20020808	US 2000-733611	20001208 <--
	US 2002188026	A1	20021212	US 2001-52908	20011029 <--
PRAI	US 2000-733611	A3	20001208 <--		
AB	Dry dipercarboxylic acid material and methods of using dry dipercarboxylic acid particulates to form novel sterilizing solns. or liquid chemical germicides. The dipercarboxylic acids or organic diperoxygen compds. can be synthesized and isolated as solid powders with an extended shelf life. The powders are also soluble in water for quickly preparing liquid disinfectant solns., whenever and wherever desired, from a potable water source. The dry dipercarboxylic acid materials are selected from diperglutaric acid, diperadipic acid, diperpimelic acid, dipersuberic acid, and diperaazelaic acid. Upon dissoln. into water, these compds. have demonstrated the ability to inactivate high nos. of spores, including sterilization of medical equipment in 10 min at room temperature. The average dim. of zone of inhibition of diperglutaric acid at a concentration of 0.33% against Staphylococcus aureus, Pseudomonas aeruginosa, and Escherichia coli was 10 mm, while glutaric acid at 1% had no zone of inhibition.				
ST	sterilization dipercarboxylic acid germicides				
IT	Quaternary ammonium compounds, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(aliphatic long chain; methods of sterilizing with dipercarboxylic acids)				
IT	Fatty acids, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(aliphatic; methods of sterilizing with dipercarboxylic acids)				
IT	Alkali metal salts RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(hydrated; methods of sterilizing with dipercarboxylic acids)				
IT	Disinfectants Solubilizers Sporicides (methods of sterilizing with dipercarboxylic acids)				
IT	Alkaline earth salts Salts, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(methods of sterilizing with dipercarboxylic acids)				
IT	Carboxylic acids , biological studies RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(peroxy, di-; methods of sterilizing with				

dipercarboxylic acids)

IT 7487-88-9, Magnesium sulfate, biological studies 7757-82-6, Sodium sulfate, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (methods of sterilizing with dipercarboxylic acids)

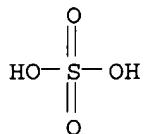
IT 1941-79-3P, Diperazelaic acid.
 2455-27-8P, Diperpimelic acid
 5824-51-1P, Diperadipic acid
 28317-46-6P, Diperglutaric acid
 28317-47-7P, Dipersuberic acid
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (methods of sterilizing with dipercarboxylic acids)

IT 64-17-5, Ethanol, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (methods of sterilizing with dipercarboxylic acids)

IT 7722-84-1, Hydrogen peroxide., reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (methods of sterilizing with dipercarboxylic acids)

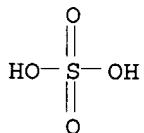
IT 7487-88-9, Magnesium sulfate, biological studies 7757-82-6, Sodium sulfate, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (methods of sterilizing with dipercarboxylic acids)

RN 7487-88-9 HCPLUS
 CN Sulfuric acid magnesium salt (1:1) (8CI, 9CI) (CA INDEX NAME)



● Mg

RN 7757-82-6 HCPLUS
 CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



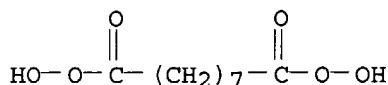
●2 Na

IT 1941-79-3P, Diperazelaic acid.

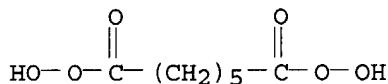
2455-27-8P, Diperpimelic acid
 5824-51-1P, Diperadicic acid
 28317-46-6P, Diperglutaric acid
 28317-47-7P, Dipersuberic acid

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (methods of sterilizing with dipercarboxylic acids)

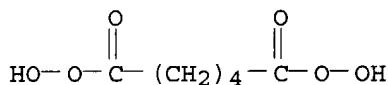
RN 1941-79-3 HCPLUS
 CN Nonanediperoxoic acid (9CI) (CA INDEX NAME)



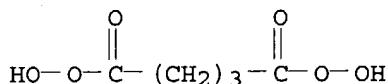
RN 2455-27-8 HCPLUS
 CN Heptanediperoxoic acid (9CI) (CA INDEX NAME)



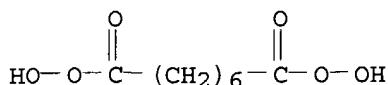
RN 5824-51-1 HCPLUS
 CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)



RN 28317-46-6 HCPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



RN 28317-47-7 HCPLUS
 CN Octanediperoxoic acid (9CI) (CA INDEX NAME)



L83 ANSWER 2 OF 10 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:499742 HCPLUS
 DN 135:97456
 ED Entered STN: 11 Jul 2001
 TI Sterilization of surgical sites and use of biocide compositions
 IN Simpson, Charles Lee
 PA Sulzer Carbomedics Inc., USA
 SO U.S., 5 pp.
 CODEN: USXXAM

DT Patent
 LA English
 IC ICM B01D017-06
 ICS C25F001-00; A61B018-04; A61D001-10
 NCL 205687000
 CC 63-6 (Pharmaceuticals)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6258249	B1	20010710	US 1999-437597	19991110 <--
PRAI	US 1999-437597			19991110	<--

AB A method for the treatment of an infected area within a body. The method comprises applying a elec. conductive biocide composition to an infected area within a body that has been exposed during surgery. Then, an elec. field is applied to the biocide composition. The elec. field strength and duration of application may be sufficient to produce killing of microorganisms in the infected area.

ST sterilization surgical site biocide

IT Antibiotics
 (aminoglycoside; sterilization of surgical sites and use of biocide compns.)

IT Antibacterial agents
 (iodophors; sterilization of surgical sites and use of biocide compns.)

IT Antibiotics
 (macrolide; sterilization of surgical sites and use of biocide compns.)

IT Antibiotics
 (quinolone; sterilization of surgical sites and use of biocide compns.)

IT Antibiotics
 Bacteria (Eubacteria)

Biocides
 Disinfectants

Electric field

Fungi

Fungicides

Sterilization and Disinfection

Surgery

Thickening agents

Yeast

(sterilization of surgical sites and use of biocide compns.)

IT Alcohols, biological studies

Aldehydes, biological studies

Quaternary ammonium compounds, biological studies

Sulfonamides

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(sterilization of surgical sites and use of biocide compns.)

IT 13721-01-2D, derivs., antibiotics

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Quinolone antibiotics; sterilization of surgical sites and use of biocide compns.)

IT 50-00-0, Formaldehyde, biological studies 55-56-1, Chlorhexidine
 59-87-0, Nitrofurazone 60-54-8, Tetracycline 67-20-9, Nitrofurantoin
 70-30-4, Hexachlorophene 79-21-0, Peroxyacetic acid 100-97-0,
 Methenamine, biological studies 107-22-2, Glyoxal 110-00-9, Furan
 111-30-8, Glutaraldehyde 123-23-9, Succinyl peroxide 288-32-4,
 Imidazole, biological studies 542-78-9, Malonaldehyde 638-37-9,
 Succinaldehyde 818-85-9, Peroxyheptanoic acid 1072-21-5, Adipaldehyde
 1406-05-9, Penicillin 3058-35-3, Peroxynonanoic acid 3380-34-5,
 Triclosan 3851-97-6, Monoperglutaric acid 7429-90-5D, Aluminum,
 compds., biological studies 7439-89-6D, Iron, compds., biological
 studies 7439-92-1D, Lead, compds., biological studies 7439-96-5D,

Manganese, compds., biological studies 7439-97-6D, Mercury, compds., biological studies 7440-02-0D, Nickel, compds., biological studies 7440-22-4D, Silver, compds., biological studies 7440-31-5D, Tin, compds., biological studies 7440-48-4D, Cobalt, compds., biological studies 7440-50-8D, Copper, compds., biological studies 7440-57-5D, Gold, compds., biological studies 7440-66-6D, Zinc, compds., biological studies 7553-56-2, Iodine, biological studies 7681-52-9, Sodium hypochlorite 7722-84-1, Hydrogen peroxide, biological studies 7778-54-3, Calcium hypochlorite 7782-50-5, Chlorine, biological studies 7790-92-3, Hypochlorous acid 10049-04-4, Chlorine dioxide 11111-12-9, Cephalosporin 14380-61-1, Hypochlorite 25655-41-8, Povidone-iodine 28317-46-6, **Diperglutaric acid**
56961-14-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sterilization of surgical sites and use of biocide compns.)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; EP 0147970 A1 1985 HCPLUS
- (2) Costerton; US 4419248 1983 HCPLUS
- (3) Costerton; US 4542169 1985
- (4) Costerton; US 4800959 1989
- (5) Costerton; US 5174378 1992 HCPLUS
- (6) Costerton; US 5312813 1994 HCPLUS
- (7) Woodson; US 5462644 1995

IT 7681-52-9, Sodium hypochlorite 7778-54-3, Calcium hypochlorite 28317-46-6, **Diperglutaric acid**

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sterilization of surgical sites and use of biocide compns.)

RN 7681-52-9 HCPLUS

CN Hypochlorous acid, sodium salt (8CI, 9CI) (CA INDEX NAME)

Cl-OH

● Na

RN 7778-54-3 HCPLUS

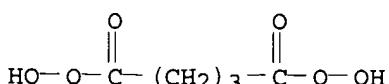
CN Hypochlorous acid, calcium salt (8CI, 9CI) (CA INDEX NAME)

Cl-OH

● 1/2 Ca

RN 28317-46-6 HCPLUS

CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



ED Entered STN: 02 Sep 1995
 TI Synergistic peroxy acid antimicrobial compositions.
 IN Oakes, Thomas R.; Boufford, Thomas G.
 PA Ecolab Inc., USA
 SO U.S., 13 pp. Cont.-in-part of U.S. 5, 200, 189.
 CODEN: USXXAM

DT Patent
 LA English
 IC ICM A01N037-02
 NCL 424405000
 CC 17-4 (Food and Feed Chemistry)
 Section cross-reference(s): 63

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 5437868	A	19950801	US 1993-47264	19930412 <--	
	US 5200189	A	19930406	US 1991-734580	19910723 <--	
	ZA 9202751	A	19921230	ZA 1992-2751	19920415 <--	
	CA 2108177	AA	19930124	CA 1992-2108177	19920529 <--	
	CN 1068705	A	19930210	CN 1992-103834	19920529 <--	
	CN 1050734	B	20000329			
	AT 161142	E	19980115	AT 1992-913905	19920529 <--	
	ES 2112908	T3	19980416	ES 1992-913905	19920529 <--	
	US 5314687	A	19940524	US 1992-932612	19920820 <--	
	US 5718910	A	19980217	US 1993-4075	19930113 <--	
	WO 9423575	A1	19941027	WO 1994-US2134	19940224 <--	
		W: AU, CA, CN, JP, NZ				
		RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9465867	A1	19941108	AU 1994-65867	19940224 <--	
AU 676902	B2	19970327				
EP 693876	A1	19960131	EP 1994-913884	19940224 <--		
EP 693876	B1	19980708				
EP 693876	B2	20011024				
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
AT 167981	E	19980715	AT 1994-913884	19940224 <--		
US 5489434	A	19960206	US 1995-402629	19950313 <--		
PRAI	US 1991-734580	A2	19910723 <--			
	US 1993-47264	A	19930412 <--			
	WO 1994-US2134	W	19940224 <--			

AB A synergistic peroxy acid antimicrobial concentrate comprises **peroxyglutaric acid** in combination with a C1-4 peroxyacid and/or a C6-18 peroxyacid. Other components can be added to the composition such as hydrotrope coupling agents, **stabilizers**, etc. An effective antimicrobial solution is formed, at low concns., when the concentrate is diluted with water. Sanitizing of fixed, in-place, processing lines in dairies, breweries, and other food processing operations is one utility of the composition

ST synergism peroxy acid microbicide

IT Food

(industry, synergistic peroxy acid antimicrobial compns.)

IT Acids, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(peroxy, synergistic antimicrobial compns. containing)

IT **Bactericides, Disinfectants, and Antiseptics**

Fungicides and Fungistats

Virucides and Virustats

(synergistic, peroxy acids-containing compns.)

IT 159835-08-2 167770-73-2 167770-74-3 167770-75-4 167770-76-5
167770-77-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (synergistic antimicrobial compns.)

L83 ANSWER 4 OF 10 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:460263 HCPLUS
 DN 121:60263
 ED Entered STN: 06 Aug 1994
 TI Bleach granules containing peroxy acid and hydratable inorganic compound
 IN Ploumen, Jan J. H.; Edelijn, Herman J.; Reijnen, Jan J. M.
 PA Akzo N.V., Neth.
 SO U.S., 7 pp. Cont.-in-part of U.S. 5,049,298.
 CODEN: USXXAM

DT Patent

LA English

IC ICM C11D007-54
 ICS C01B015-00

NCL 252095000

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5296156	A	19940322	US 1991-722985	19910628 <--
	US 5049298	A	19910917	US 1989-436994	19891115 <--
PRAI	EP 1988-202691		19881125 <--		
	US 1989-436994		19891115 <--		
AB	Free-flowing, storage-stable, water-soluble bleach granules, especially useful in laundry detergent compns., are prepared by mixing ≥1 water-insol. peroxy acid, e.g., HOOC(O)(CH ₂) ₁₀ C(O)OOH or R(CH ₂) ₅ C(O)OOH (R = phthalimido), with a hydratable inorg. compound, e.g., Na ₂ SO ₄ , at a water content below the maximum hydration water content of the inorg. compound and at a temperature below the hydration temperature of the inorg. compound,				
	increasing the temperature to at least the hydration temperature of the inorg. compound,				
	and forming the powder into granules having diameter 0.1-5 mm. The granules optionally contain ≤10% surfactant and ≤15% water-insol. organic compound				

ST peroxy acid bleach granulation stability; peroxydodecanedioic acid bleach granulation; peroxyhexanoic deriv bleach granulation; laundry detergent peroxy acid bleach; sodium sulfate hydration granulation bleach

IT Granulation

(of peroxy acid bleach with hydratable inorg. compound, for detergents)

IT Bleaching agents

(peroxy acids, granulation of hydratable inorg. compound with, for detergents)

IT Detergents

(laundry, bleaching agents for use in, peroxy acids as, granulation of)

IT Carboxylic acids, uses

RL: USES (Uses)

(peroxy, bleaching agents, granulation of, with hydratable inorg. compound)

IT 1941-79-3, Nonanediperoxoic acid

66280-55-5, Diperoxydodecanedioic acid 68575-79-1,
 Diperoxytridecanedioic acid 104788-63-8, 6-Nonylamino-6-oxoperoxyhexanoic acid 104788-71-8, N-Dodecanoyl-6-aminoperoxyhexanoic acid 104788-72-9, N-Decanoyl-6-aminoperoxyhexanoic acid 111875-82-2, 4-Nonylamino-4-oxoperoxybutanoic acid 128275-31-0, 6-Phthalimidoperoxyhexanoic acid

RL: USES (Uses)

(bleaching agents, granulation of hydratable inorg. compound with)

IT 7757-82-6, Sodium sulfate, uses

RL: USES (Uses)

(in granulation of peroxy acids as bleaching agents)

IT 1941-79-3, Nonanediperoxoic acid

66280-55-5, Diperoxydodecanedioic acid 68575-79-1,

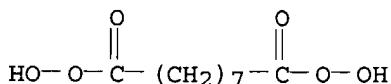
Diperoxytridecanedioic acid

RL: USES (Uses)

(bleaching agents, granulation of hydratable inorg. compound with)

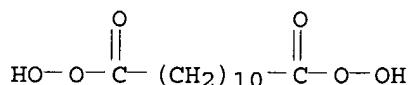
RN 1941-79-3 HCPLUS

CN Nonanediperoxoic acid (9CI) (CA INDEX NAME)



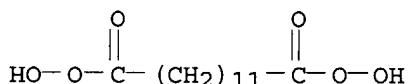
RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



RN 68575-79-1 HCPLUS

CN Tridecanediperoxoic acid (9CI) (CA INDEX NAME)



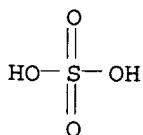
IT 7757-82-6, Sodium sulfate, uses

RL: USES (Uses)

(in granulation of peroxy acids as bleaching agents)

RN 7757-82-6 HCPLUS

CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L83 ANSWER 5 OF 10 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1990:574519 HCPLUS

DN 113:174519

ED Entered STN: 09 Nov 1990

TI Granular peroxycarboxylic acid bleaches with less tendency to decompose or detonate

IN Foster, Jeffrey N.; Karpusiewicz, William M.; Irwin, Charles F.; Pham, Hien T.; Aronson, Michael P.

PA Lever Brothers Co., USA

SO U.S., 4 pp. Cont.-in-part of U.S. Ser. No. 246,836, abandoned.

CODEN: USXXAM

DT Patent
 LA English
 IC ICM C11D003-395
 ICS C11D003-39; D06L003-02
 NCL 252095000
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4917811	A	19900417	US 1989-292692	19890103 <--
	EP 360323	A2	19900328	EP 1989-202253	19890906 <--
	EP 360323	A3	19901107		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	CA 1312417	A1	19930112	CA 1989-611487	19890914 <--
	AU 8941499	A1	19900329	AU 1989-41499	19890919 <--
	AU 616304	B2	19911024		
	BR 8904698	A	19900501	BR 1989-4698	19890919 <--
	JP 02133496	A2	19900522	JP 1989-244884	19890920 <--
	JP 06031421	B4	19940427		
	ZA 8907182	A	19910529	ZA 1989-7182	19890920 <--
PRAI	US 1988-246836		19880920 <--		
	US 1989-292692		19890103 <--		

AB The title compns., useful in laundry detergents, contain 1-45% aliphatic peroxy acid and 35-99% alkaline hydratable alkali metal salts forming 1% aqueous

solns. with pH ≥8.5 and are formed by absorbing all water used as water of hydration. A dispersion of 24.6 g powdered 61.7:38.3 diperoxydodecanedioic acid-Na₂SO₄ in 15 g H₂O was sprayed onto 34.23 g Na₂HPO₄ in a drum mixer to give granules (60% +35 to -10 mesh) with autoignition temperature ≥200°.

ST diperoxydodecanedioic acid bleach **stable**; peroxy carboxylic acid bleach **stabilization**; phosphate **stabilization**
 peroxy carboxylic bleach; safety peroxy carboxylic bleach; explosion prevention peroxy carboxylate bleach

IT Granulation

(of peroxy carboxylic acid bleaches, for **stability** and detonation resistance)

IT Bleaching agents

(peroxy carboxylic acids, granules, manufacture of detonation-resistant)

IT Explosion

(prevention of, in peroxy carboxylic acid bleach granulation)

IT Carboxylic acids, uses and miscellaneous

RL: USES (Uses)

(peroxy, bleaching agents, manufacture of granular and detonation-resistant)

IT **66280-55-5**, Diperoxydodecanedioic acid

RL: USES (Uses)

(bleaching agents, manufacture of granular and detonation-resistant)

IT **497-19-8**, Carbonic acid disodium salt, uses and miscellaneous

1330-43-4, Sodium tetraborate **7558-79-4**, Dibasic sodium

phosphate 11138-47-9, Sodium perborate

RL: USES (Uses)

(peroxy carboxylic acid bleach prep in presence of, for detonation resistance)

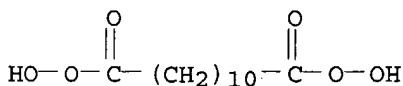
IT **66280-55-5**, Diperoxydodecanedioic acid

RL: USES (Uses)

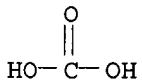
(bleaching agents, manufacture of granular and detonation-resistant)

RN **66280-55-5 HCPLUS**

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)

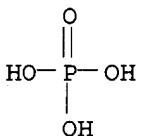


IT 497-19-8, Carbonic acid disodium salt, uses and miscellaneous
 7558-79-4, Dibasic sodium phosphate
 RL: USES (Uses)
 (peroxycarboxylic acid bleach prep in presence of, for detonation
 resistance)
 RN 497-19-8 HCAPLUS
 CN Carbonic acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

RN 7558-79-4 HCAPLUS
 CN Phosphoric acid, disodium salt (8CI, 9CI) (CA INDEX NAME)



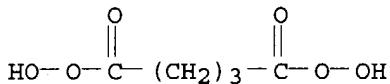
●2 Na

L83 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:403217 HCAPLUS
 DN 113:3217
 ED Entered STN: 06 Jul 1990
 TI Stable aqueous aromatic percarboxylic acid solution
 IN Beilfuss, Wolfgang; Diehl, Karl Heinz
 PA Sterling Drug Inc., USA
 SO U.S., 5 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C07C179-133
 ICS D06L003-02; A01N037-10; A01N043-40
 NCL 252186230
 CC 10-5 (Microbial Biochemistry)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4917815	A	19900417	US 1988-205133	19880610 <--
	CA 1319581	A1	19930629	CA 1988-569394	19880614 <--
PRAI	US 1988-205133		19880610 <--		
OS	CASREACT 113:3217				
AB	An aqueous disinfectant and bleaching agent is claimed comprising an				

aromatic percarboxylic acid which has been **stabilized** with the corresponding aromatic carboxylic acid and H₂O₂ or a solution of perglutamic acid **stabilized** with H₂O₂. Thus, a **stabilized** aromatic percarboxylic acid solution was prepared by mixing 0.2 parts by weight benzoic anhydride with 0.2 parts 2,6-pyridinecarboxylic acid with 99.6 parts of 35% H₂O₂. The solution (now containing perbenzoic acid and benzoic acid) was active against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and other common bacterial strains *in vitro*.

ST **disinfectant** arom percarboxylic acid; bleaching agent arom percarboxylic acid
 IT **Bactericides, Disinfectants, and Antiseptics**
 Bleaching agents
 (aromatic percarboxylic acids)
 IT Carboxylic acids, biological studies
 RL: BIOL (Biological study)
 (aryl, peroxy, **disinfectant** and bleaching agent)
 IT 93-59-4, Perbenzoic acid 499-83-2, 2,6-Pyridinedicarboxylic acid
28317-46-6, Perglutaric acid
 RL: BIOL (Biological study)
 (**disinfectant** containing)
 IT 7722-84-1, Hydrogen peroxide, biological studies
 RL: BIOL (Biological study)
 (**disinfectant** containing aromatic percarboxylic acids and)
 IT 93-97-0, Benzoic anhydride 108-55-4, Glutaric anhydride
 RL: BIOL (Biological study)
 (**disinfectant** containing hydrogen peroxide and)
 IT **28317-46-6, Perglutaric acid**
 RL: BIOL (Biological study)
 (**disinfectant** containing)
 RN 28317-46-6 HCPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L83 ANSWER 7 OF 10 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:520661 HCPLUS
 DN 111:120661
 ED Entered STN: 01 Oct 1989
 TI Anaerobe-selective antibacterial compositions containing 1,12-dodecanedioic peroxy acids
 IN Sampathkumar, Padmini
 PA Procter and Gamble Co., USA
 SO U.S., 7 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM A61K007-20
 NCL 424053000
 CC 62-7 (Essential Oils and Cosmetics)
 Section cross-reference(s): 63
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4804530	A	19890214	US 1987-75235	19870717 <--
	US 5028414	A	19910702	US 1988-272669	19881117 <--
PRAI	US 1987-75235		19870717 <--		
AB	Substituted or unsubstituted 1,12-dodecanedioic peroxyacids, and pharmaceutically acceptable salts, or esters are useful for treating or				

preventing anaerobic bacterial infections such as acne, and especially diseases of the oral cavity such as gingivitis and periodontal diseases. A mouth rinse contained diperoxy 1,12-dodecanedioic acid 0.1, boric acid 0.133, Na saccharin 0.102, Na2B4O7.10H2O 0.680, 1N HCl 1.2, EtOH 15% by weight, and water balance. The composition had an available O concentration of 120 ppm and was

used twice daily within 10 min of mixing the component to treat or prevent gingivitis or periodontal diseases.

ST peroxy dodecanedioate bactericide gingivitis; acne peroxy dodecanedioate bactericide; mouthwash peroxy dodecanedioate bactericide

IT Acne

(treatment of, dodecanedioic peroxyacid-containing body rinses for)

IT Dentifrices

(anticariogenic, dodecanedioic peroxyacids in)

IT Mouthwashes

(bactericidal, dodecanedioic peroxyacids in)

IT Periodontium

(disease, treatment of, dodecanedioic peroxyacid-containing dentifrices for)

IT Gingiva

(disease, gingivitis, treatment of, dodecanedioic peroxyacid-containing dentifrices for)

IT **Bactericides, Disinfectants, and Antiseptics**

(medical, dodecanedioic peroxyacids as, dentifrices containing)

IT 53384-55-7D, salts and esters

RL: BIOL (Biological study)

(dentifrices containing as anaerobe-selective antibacterial agent, for treatment of periodontal diseases)

IT 53384-55-7 **66280-55-5**, Dodecanediperoxoic acid

66280-55-5D, Dodecanediperoxoic acid, salts and esters

RL: BIOL (Biological study)

(dentifrices containing, as antibacterial agent, for treatment of periodontal diseases)

IT **66280-55-5**, Dodecanediperoxoic acid **66280-55-5D**,

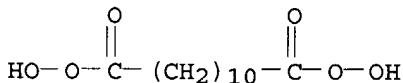
Dodecanediperoxoic acid, salts and esters

RL: BIOL (Biological study)

(dentifrices containing, as antibacterial agent, for treatment of periodontal diseases)

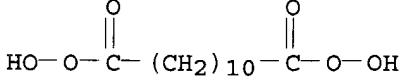
RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L83 ANSWER 8 OF 10 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1982:494461 HCPLUS

DN 97:94461

ED Entered STN: 12 May 1984

TI Bleach composition

IN Clements, Anthony H.

PA Lever Brothers Co., USA
 SO U.S., 5 pp. Cont.-in-part of U.S. Ser. No. 176,750, abandoned.
 CODEN: USXXAM

DT Patent

LA English

IC C11D009-42

NCL 252096000

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4337164	A	19820629	US 1981-237793	19810224 <--
PRAI	GB 1979-28590		19790816	<--	
	US 1980-176750		19800811	<--	

AB An organic per acid such as diperisophthalic acid (I) [1786-87-4] or peracetic acid [79-21-0] is used with a water-soluble bromide salt for the bleaching of soiled fabrics at $\leq 40^\circ$ without causing dye transfer. Thus, water containing 0.4% powdered detergent, 0.355 + 10^{-3} mol/L I, and 0.71 + 10^{-3} mol/L NaBr was used at 40° for the bleaching-laundrying of tea-stained fabrics.

ST peroxy acid bromide bleaching; carboxylic acid peroxy bleaching; sodium bromide peroxide bleaching

IT Bleaching agents
 (peroxy acid-sodium bromide, for low temperature use, for fabrics)

IT Peroxides, uses and miscellaneous

RL: USES (Uses)
 (organic, bleaching by sodium bromide and, of fabrics at low temperature)

IT Carboxylic acids, uses and miscellaneous

RL: USES (Uses)
 (peroxy, bleaching by sodium bromide and, of fabrics at low temperature)

IT 7647-15-6, properties

RL: PRP (Properties)
 (bleaching by peroxy acids and, of fabrics at low temperature)

IT 79-21-0 1786-87-4 1941-79-3 2311-91-3

RL: USES (Uses)
 (bleaching by sodium bromide and, of fabrics at low temperature)

IT 7647-15-6, properties

RL: PRP (Properties)
 (bleaching by peroxy acids and, of fabrics at low temperature)

RN 7647-15-6 HCAPLUS

CN Sodium bromide (NaBr) (9CI) (CA INDEX NAME)

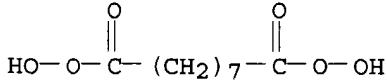
Br—Na

IT 1941-79-3

RL: USES (Uses)
 (bleaching by sodium bromide and, of fabrics at low temperature)

RN 1941-79-3 HCAPLUS

CN Nonanediperoxoic acid (9CI) (CA INDEX NAME)



TI Bleach tablet composition
 IN Huber, Arthur Elmer
 PA Procter and Gamble Co., USA
 SO U.S., 5 pp.
 CODEN: USXXAM

DT Patent
 LA English
 IC C01B013-00
 NCL 252186000
 CC 39-9 (Textiles)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4013581	A	19770322	US 1975-594910	19750710 <--
PRAI	US 1975-594910		19750710		<--

AB Mixts. of microfine, free-flowing starch [9005-25-8] and microcryst. cellulose (I) [9004-34-6] can be combined with solid diperazelaic acid (II) [1941-79-3] bleaches or perlauric acid [2388-12-7] bleaches and Na₂SO₄ to provide tablets which are storage-stable, durable, and yet rapidly disintegrate and disperse on contact with water. Thus, a 1:1 II-Na₂SO₄ mixture was blended with Avicel microcryst. I, starch, and Mg stearate, and the composition was formed into a 2.25 in.

diameter bleach tablet. The tablet rapidly disintegrated and dispersed in an automatic washing machine.

ST storage stability peroxygen bleach; starch peroxygen bleaching tablet; cellulose peroxygen bleaching tablet; diperazelaic acid textile bleach

IT Bleaching agents
 (peroxygen, storage-stable tablets containing,
 disintegrating agent for)

IT 1941-79-3 2388-12-7

RL: USES (Uses)
 (bleaching agents, storage-stable tablets containing,
 disintegrating agents for)

IT 9005-25-8, uses and miscellaneous

RL: USES (Uses)
 (disintegrating agents, containing microcryst. cellulose, for
 storage-stable peroxygen bleaching tablets)

IT 9004-34-6, uses and miscellaneous

RL: USES (Uses)
 (microcryst., disintegrating agents, containing starch, for
 storage-stable peroxygen bleaching tablets)

IT 7757-82-6, uses and miscellaneous

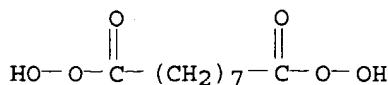
RL: USES (Uses)
 (peroxygen bleaching tablets containing, storage-stable
 , disintegrating agents for)

IT 1941-79-3

RL: USES (Uses)
 (bleaching agents, storage-stable tablets containing,
 disintegrating agents for)

RN 1941-79-3 HCAPLUS

CN Nonanediperoxoic acid (9CI) (CA INDEX NAME)

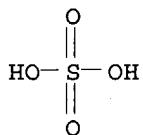


IT 7757-82-6, uses and miscellaneous
 RL: USES (Uses)

(peroxygen bleaching tablets containing, storage-stable
, disintegrating agents for)

RN 7757-82-6 HCAPLUS

CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L83 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1958:56072 HCAPLUS

DN 52:56072

OREF 52:10152c-f

ED Entered STN: 22 Apr 2001

TI Organic peracids

IN Krimm, Heinrich

PA Farbenfabriken Bayer A.-G.

DT Patent

LA Unavailable

CC 10 (Organic Chemistry)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
PI US 2813896		19571119	US	<--
AB	Peracids are prepared from carboxylic acids in good yield by 30% aqueous H ₂ SO ₄ (I) and concentrated H ₂ SO ₄ sufficient to give a 1:1.5-3 H ₂ SO ₄ -H ₂ O ratio. I			

(460 g.) added dropwise with ice-cooling to 700 g. concentrated H₂SO₄, 240 g. glacial HOAc added, and the mixture kept overnight and distilled in vacuo from a glass apparatus yields 280 g. 82% C₃H₇CO₃H (II), b₁₅ 22-8°; raising the bath temperature from 50-90° yields 160 g. 34% II, total yield 91%. Similar yields of II are obtained using 204 g. Ac₂O (instead of HOAc). Similarly, the mixture obtained from 230 g. I, 750 g. concentrated H₂SO₄, and 190 g. ClCH₂CO₃H is extracted with 800 g. CH₂Cl₂ to give an 11.8% solution of

ClCH₂CO₃H, yield 80%. C₃H₇CO₂H gives a 90% yield of 75% C₃H₇CO₃H, b₁₂ 26-9°. The products of reaction of 576 g. C₇H₁₅CO₂H with 460 g. I and 1500 g. concentrated H₂SO₄ are taken up in petr. ether, dried over Na₂SO₄, and freed of solvent, leaving 600 g. 71% C₇H₁₅CO₃H, yield 66%. Reaction of 230 g. I and 500 g. concentrated H₂SO₄ with 73 g. (CH₂)₄(CO₂H)₂ gives 80% crystalline (CH₂)₄(CO₃H)₂, filtered from the chilled mixture, m. 114-15° (decomposition) (Et₂O or tetrahydrofuran). Similarly, 100 g. (CH₂)₈(CO₂H)₂ gives a nearly quant. yield of (CH₂)₈(CO₃H)₂, m. 96-7°. Addition of 122 g. BzOH and enough Et₂O to give a homogenous mixture to 230 g. I and 500 g. concentrated H₂SO₄, keeping the mixture 2 days

at room temperature, adding an equal volume of ice-H₂O, and extracting the aqueous phase with

500 ml. Et₂O give a solution of 44 g. (32%) BzO₂H in Et₂O.

IT Peroxy acids

(manufacture of)

IT 93-59-4, Peroxybenzoic acid 13122-71-9, Peroxybutyric acid 123292-90-0, Peroxyacetic acid, 3α-hydroxy-11-oxo-5β-pregnan-20-

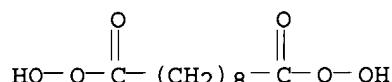
ylidene ester, acetate
(manufacture of)

IT 816-42-2, Peroxyacetic acid, chloro- 5796-85-0,
Peroxysebacic acid 5824-51-1,
Peroxyadipic acid 33734-57-5, Peroxyoctanoic acid
(preparation of)

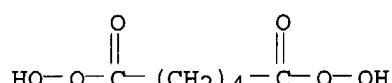
IT 5796-85-0, **Peroxysebacic acid**
5824-51-1, **Peroxyadipic acid**
(preparation of)

RN 5796-85-0 HCAPLUS

CN Decanediperoxoic acid (9CI) (CA INDEX NAME)



RN 5824-51-1 HCAPLUS
CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)

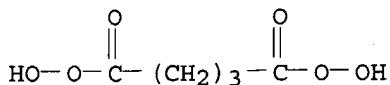


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L85 ANSWER 1 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:429246 HCAPLUS
DN 138:390861
ED Entered STN: 05 Jun 2003
TI Preparation of composite **disinfectant**
IN Guo, Ying; Zhang, Tiande; Zhang, Yi
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM A01N037-04
CC 63-5 (Pharmaceuticals)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1350785	A	20020529	CN 2000-129840	20001030 <--
PRAI	CN 2000-129840		20001030 <--		
AB	The title disinfectant is composed of chlorine dioxide and peroxyglutaric acid . The disinfectant is highly effective, wide-spectrum, and low in toxicity.				
ST	disinfectant chlorine dioxide peroxyglutaric acid prepns				
IT	Antibacterial agents Disinfectants (preparation of composite disinfectant)				
IT	10049-04-4, Chlorine dioxide 28317-46-6, Peroxyglutaric acid				
	RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (preparation of composite disinfectant)				

IT 28317-46-6, **Peroxyglutaric acid**
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
 USES (Uses)
 (preparation of composite **disinfectant**)
 RN 28317-46-6 HCAPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 2 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:664090 HCAPLUS

DN 137:175031

ED Entered STN: 04 Sep 2002

TI **Disinfecting** composition containing peroxyalkanedicarboxylates

IN Zhang, Tiande; Guo, Ying; Zhang, Yi

PA Peop. Rep. China

SO Faming Zhuanli Shengqing Gongkai Shuomingshu, 6 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM A01N037-00

CC 63-8 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1320371	A	20011107	CN 2000-106205	20000425 <--
PRAI	CN 2000-106205		20000425 <--		

AB A **disinfecting** composition is composed of peroxypropane-1,3-dicarboxylic acid 0-99, peroxyethane-1,2-dicarboxylic acid 0-99, H₃PO₄ or urea as **stabilizing** agent 0.2-0.3, ethanol or nonionics as synergist 0.2-70, and addnl. water to 100%. The composition is prepared by mixing, and treating with ionizing radiation. The product is highly effective, and wide-spectrum.

ST **disinfectant** dicarboxylic acid peroxyalkane

IT **Disinfectants**

(**disinfecting** composition containing peroxyalkanedicarboxylates)

IT 2279-96-1, Butanediperoxoic acid 28317-46-6,

Pentanediperoxoic acid

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**disinfecting** composition containing peroxyalkanedicarboxylates)

IT 2279-96-1, Butanediperoxoic acid 28317-46-6,

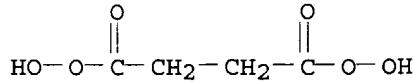
Pentanediperoxoic acid

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**disinfecting** composition containing peroxyalkanedicarboxylates)

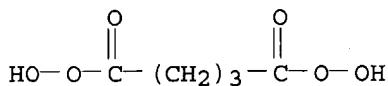
RN 2279-96-1 HCAPLUS

CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



RN 28317-46-6 HCAPLUS

CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 3 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:123162 HCAPLUS

DN 136:169474

ED Entered STN: 15 Feb 2002

TI Pasty peracids

IN Shamayeli, Khalil; Merz, Thomas

PA Henkel Ecolab G.m.b.H. & Co., o.H.G., Germany

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM C11D017-00

ICS C11D017-04; B65D077-22; C11D003-39; C11D011-00

CC 46-6 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002012431	A1	20020214	WO 2001-EP9027	20010804 <--
	W: AU, BR, CA, JP, PL, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10039031	A1	20020228	DE 2000-10039031	20000810 <--
	AU 2001082068	A5	20020218	AU 2001-82068	20010804 <--
PRAI	DE 2000-10039031	A	20000810 <--		
	WO 2001-EP9027	W	20010804		

OS MARPAT 136:169474

AB Active O-containing pastes, useful as bleaches, washing agents and **disinfectants**, contain (a) H₂O₂ and/or ≥1 H₂O-soluble percarboxylic acids or their anions, (b) ≥1 viscosity-enhancing components, e.g., polyvinylpyrrolidone, fatty acids, amine oxides, phosphonate esters, fatty alcs. or phthalimidopercarboxylic acid (PAP), with the proviso that (a) is different from PAP, (c) H₂O and, optionally, further adjuvants and active agents. For example, a paste containing H₂O₂ 24, phthalimidoperhexanoic acid 40, caprylic acid 8, a phosphate ester (unspecified) 5, phosphonate **stabilizer** (unspecified) 3, acrylate-maleate copolymer (Sokalan) 5 and ethoxylated (15 EO) tallow alcs. 10% had Brookfield viscosity (25°) 80,000.

ST peracid paste manuf viscosity enhancement; hydrogen peroxide paste manuf viscosity enhancement; phthalimidoperhexanoic acid paste manuf viscosity enhancement; polyvinylpyrrolidone viscosity enhancer hydrogen peroxide paste manuf; fatty acid viscosity enhancer peracid paste manuf

IT Peroxy acids

RL: TEM (Technical or engineered material use); USES (Uses)
(active oxygen-containing pastes with increased viscosity)

IT Bleaching agents

Disinfectants

(active oxygen-containing pastes with increased viscosity for use as)

IT Alcohols, uses

RL: NUU (Other use, unclassified); USES (Uses)
(fatty, viscosity enhancers; active oxygen-containing pastes with increased viscosity)

IT Amine oxides

Fatty acids, uses

RL: NUU (Other use, unclassified); USES (Uses)
(viscosity enhancers; active oxygen-containing pastes with increased viscosity)

IT Detergents

(washing agents; active oxygen-containing pastes with increased viscosity for use as)

IT 124-07-2, Caprylic acid, uses 7722-84-1, Hydrogen peroxide, uses 9003-39-8, Polyvinylpyrrolidone 128275-31-0, Phthalimidoperhexanoic acid **398143-67-4**

RL: TEM (Technical or engineered material use); USES (Uses)
(active oxygen-containing pastes with increased viscosity)

IT 7664-38-2D, Phosphoric acid, esters
RL: TEM (Technical or engineered material use); USES (Uses)
(acyclic; active oxygen-containing pastes with increased viscosity)

IT 15477-76-6D, Phosphonate, esters
RL: NUU (Other use, unclassified); USES (Uses)
(viscosity enhancers; active oxygen-containing pastes with increased viscosity)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

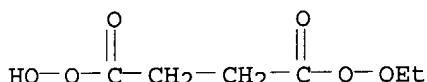
- (1) Chazard, G; US 4801395 A 1989 HCPLUS
- (2) Colgate Palmolive Co; WO 0023555 A 2000 HCPLUS
- (3) Ellis, E; US 5962392 A 1999 HCPLUS
- (4) Franz-Josef, C; US 4610799 A 1986 HCPLUS
- (5) Henkel Ecolab & Co Ogh; DE 19739333 A 1999
- (6) Henkel Kgaa; DE 19750455 C 1999 HCPLUS
- (7) Interrox Chemicals Ltd; GB 2255507 A 1992 HCPLUS
- (8) Josa, J; US 5716924 A 1998 HCPLUS
- (9) Ledon, H; US 5616335 A 1997 HCPLUS
- (10) Theis, P; WO 9509770 A 1995
- (11) Unilever Nv; EP 0442549 A 1991 HCPLUS

IT **398143-67-4**

RL: TEM (Technical or engineered material use); USES (Uses)
(active oxygen-containing pastes with increased viscosity)

RN 398143-67-4 HCPLUS

CN Butanediperoxoic acid, monoethyl ester (9CI) (CA INDEX NAME)



L85 ANSWER 4 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2001:713075 HCPLUS

DN 135:253251

ED Entered STN: 28 Sep 2001

TI Antimicrobial compositions containing hydrogen peroxide and peroxycarboxylic acids

IN Hilgren, John D.; Richter, Francis L.; Reinhart, Duane J.; Salverda, Joy A.

PA Ecolab Inc., USA

SO PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N059-00

ICS A01N037-16; A01N037-16; A01N059-00; A01N037-36; A01N037-06;
A01N037-04; A01N037-02; A01N033-12

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001070030	A2	20010927	WO 2001-US7396	20010307 <--
	WO 2001070030	A3	20020131		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

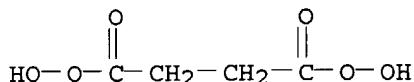
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
 ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 6627657 B1 20030930 US 2000-532691 20000322 <--
 EP 1265486 A2 20021218 EP 2001-913350 20010307 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 PRAI US 2000-532691 A 20000322 <--
 WO 2001-US7396 W 20010307
 OS MARPAT 135:253251
 AB Compns. having antimicrobial activity against a variety of microorganisms, including vegetative bacteria, bacterial spores, fungi, and fungal spores are particularly useful for microbiocidal treatments of a variety of substances. More specifically, compns. have antimicrobial activity against microorganisms of the *Bacillus cereus* group such as *Bacillus cereus*, *Bacillus mycoides*, *Bacillus anthracis*, and *Bacillus thuringiensis* are particularly useful. Compns. including hydrogen peroxide, a carboxylic acid $R(COOH)_n$ ($R = H$, alkyl, alkenyl, alicyclic group, aryl, heteroaryl, heterocyclic group; $n = 1, 2, 3$), and a peroxy carboxylic acid $R(COOOH)_n$ ($R = H$, alkyl, alkenyl, alicyclic group, aryl, heteroaryl, heterocyclic group; $n = 1, 2, 3$), in which the weight ratio of the peroxy carboxylic acid to the hydrogen peroxide is at least 4:1 are effective against microorganisms, particularly bacterial spores. Such compns. include a reduced amount of hydrogen peroxide relative to the amount of peroxy carboxylic acid as compared to conventional compns. Compns. can also include a quaternary ammonium compound, a **stabilizing** agent, a surfactant, a hydrotrope, or other additives. Methods of using a composition including hydrogen peroxide, a carboxylic acid, and a peroxy carboxylic acid in which the ratio of the peroxy carboxylic acid to the hydrogen peroxide is at least 4:1 are useful for reducing the microbial nos. on a variety of substances contaminated by microorganisms, particularly of the *Bacillus cereus* group. Such substances include foodstuffs, water, general-premise surfaces, specific-equipment surfaces, animal carcasses, soil, and textiles.
 ST antimicrobial hydrogen peroxide peroxy carboxylic acid *Bacillus*
 IT Antibacterial agents
 Antimicrobial agents
 Disinfectants
 (antimicrobial compns. containing hydrogen peroxide and peroxy carboxylic acids)
 IT Carboxylic acids, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (antimicrobial compns. containing hydrogen peroxide and peroxy carboxylic acids)
 IT *Bacillus anthracis*
Bacillus cereus
Bacillus mycoides
Bacillus thuringiensis
 (antimicrobial compns. containing hydrogen peroxide and peroxy carboxylic acids against)
 IT Spore
 (bacterial; antimicrobial compns. containing hydrogen peroxide and peroxy carboxylic acids against)
 IT Carboxylic acids, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (peroxy; antimicrobial compns. containing hydrogen peroxide and

peroxycarboxylic acids)

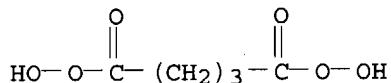
IT 79-21-0, Peroxyacetic acid 107-32-4, Peroxyformic acid 676-08-4,
 Peroxyundecanoic acid 818-85-9, Peroxyheptanoic acid 2279-96-1
 , Peroxysuccinic acid 2388-12-7, Peroxydodecanoic acid 3058-35-3,
 Peroxynonanoic acid 4212-43-5, Peroxypropanoic acid 5703-64-0
 7722-84-1, hydrogen peroxide,, biological studies 13122-71-9,
 Peroxybutyric acid 14156-10-6, Peroxydecanoic acid 21860-08-2,
 Peroxyglycolic acid 28317-46-6, **Peroxyglutaric**
acid 28384-48-7, Peroxpentanoic acid 33734-57-5,
 Peroyoctanoic acid 127542-88-5
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (antimicrobial compns. containing hydrogen peroxide and peroxycarboxylic
 acids)

IT 2279-96-1, Peroxysuccinic acid 28317-46-6,
Peroxyglutaric acid
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (antimicrobial compns. containing hydrogen peroxide and peroxycarboxylic
 acids)

RN 2279-96-1 HCPLUS
 CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



RN 28317-46-6 HCPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 5 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:545466 HCPLUS
 DN 135:127208
 ED Entered STN: 27 Jul 2001
 TI Control of microbial populations in the gastrointestinal tract of animals
 IN McKenzie, K. Scott; Giletto, Anthony; Hitchens, G.
 Duncan; Hargis, Billy M.; Herron, Kelly L.
 PA Lynntech, Inc., USA
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K031-00
 ICS A01N037-16; A01N059-00
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 18
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001052827	A1	20010726	WO 2000-US8316	20000329 <-- W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,

UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 6342528 B1 20020129 US 2000-487966 20000118 <--
 EP 1248601 A1 20021016 EP 2000-919803 20000329 <--
 EP 1248601 B1 20030910
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 AT 249210 E 20030915 AT 2000-919803 20000329 <--
 US 2002115719 A1 20020822 US 2001-981669 20011017 <--
 US 6518307 B2 20030211
 PRAI US 2000-487966 A 20000118 <--
 WO 2000-US8316 W 20000329 <--
 OS MARPAT 135:127208
 AB Biocides for ingestion by live animals contain an aqueous solution of a peracid compound or a mixture of an organic acid and an inorg. peroxide and methods for controlling microbial contamination in the gastrointestinal tract of live animals. Peroxy compds. such as peracetic acid, perlactic acid, or percitric acid were added to drinking water for broiler chickens and the biocidal activity evaluated.
 ST peracid drinking water animal antimicrobial
 IT Antimicrobial agents
 Campylobacter
 Digestive tract
 Drinking waters
 Escherichia coli
 Helicobacter
 Listeria
 Poultry
 Salmonella
 (control of microbial populations in the gastrointestinal tract of animals)
 IT Peroxy acids
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (control of microbial populations in the gastrointestinal tract of animals)
 IT Drug delivery systems
 (oral; control of microbial populations in the gastrointestinal tract of animals)
 IT Carboxylic acids, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (peroxy; control of microbial populations in the gastrointestinal tract of animals)
 IT 75-91-2, tert-Butyl hydroperoxide 79-21-0, Peracetic acid 93-59-4D,
 Perbenzoic acid, derivs. 94-36-0, Benzoyl peroxide, biological studies
 107-32-4, Performic acid 123-23-9, Succinyl peroxide 818-85-9,
 Heptaneperoxyoic acid 2388-12-7, Perlauric acid 3058-35-3, Pernonanoic
 acid 3851-97-6, Monoperglutaric acid 4212-43-5, Perpropionic acid
 13122-71-9, Perbutyric acid 21860-08-2, Perglycolic acid
28317-46-6, Diperglutaric acid 33734-57-5,
 Peroctanoic acid 75033-25-9, Perlactic acid 115900-27-1, Magnesium
 peroxyphthalate 127542-88-5
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)
 (control of microbial populations in the gastrointestinal tract of animals)
 IT 50-21-5, Lactic acid, biological studies 64-19-7, Acetic acid,
 biological studies 77-92-9, Citric acid, biological studies 7664-93-9,
 Sulfuric acid, biological studies 7722-84-1, Hydrogen peroxide,
 biological studies
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)
 (control of microbial populations in the gastrointestinal tract of animals)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

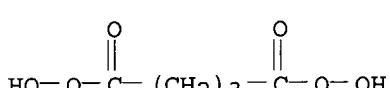
- (1) Aquaclear International Limited; WO 9108981 A 1991 HCAPLUS
- (2) Interox Chemicals Limited; EP 0233731 A 1987 HCAPLUS
- (3) Jean-Paul, H; US 4726948 A 1988 HCAPLUS
- (4) Semper, A; WO 9726908 A 1997 HCAPLUS

IT **28317-46-6, Diperglutaric acid**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (control of microbial populations in the gastrointestinal tract of animals)

RN 28317-46-6 HCAPLUS

CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 6 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:489267 HCAPLUS

DN 135:82069

ED Entered STN: 06 Jul 2001

TI Methods and agents for cleaning and **disinfecting** fragile medical appliances

IN Biering, Holger; Glasmacher, Rudolf; Schwidden, Hubert; Sorns, Joerg

PA Henkel Ecolab G.m.b.H. + Co. o.H.G., Germany

SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT **Patent**

LA German

IC ICM A61L002-00

CC 63-8 (Pharmaceuticals)

FAN.CNT 1

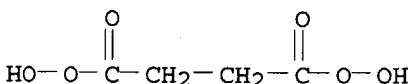
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001047565	A2	20010705	WO 2000-EP12693	20001214 <--
	WO 2001047565	A3	20030320		
	W:	AU, BR, CA, CN, HU, PL, SG, TR, US, ZA			
	RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			
	DE 199962344	A1	20010712	DE 1999-19962344	19991223 <--
	EP 1313515	A2	20030528	EP 2000-991186	20001214 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR			
	US 2003139311	A1	20030724	US 2002-168738	20021002 <--
PRAI	DE 1999-19962344	A	19991223	<--	
	WO 2000-EP12693	W	20001214	<--	

OS MARPAT 135:82069

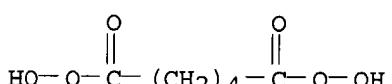
AB The invention relates to the use of agents, which contain at least one **disinfection** system based on selected organic peracids and combinations of peracids, in automatically functioning systems, in which fragile medical appliances, in particular, endoscopes, are cleaned and **disinfected**. According to the invention, the appliances are brought into contact with an aqueous **disinfection** agent solution after they have been treated and/or at the same time they are being treated with an aqueous cleaning solution. The invention also relates to cleaning and

- disinfection** agents and methods which are all suited for carrying out this purpose.
- ST peracid **disinfection** medical instrument endoscope
- IT Medical equipment
(instruments; methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT **Disinfectants**
Endoscopes
Sterilization and Disinfection
- Surfactants
Temperature effects, biological
pH
(methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT Phosphates, biological studies
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT Fatty acids, biological studies
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT Carboxylic acids, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT Carboxylic acids, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(peroxy; methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT Siloxanes (nonpolymeric)
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(surfactants; methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT 79-21-0, peracetic acid 2279-96-1, Persuccinic acid 4212-43-5,
Perpropionic acid 5824-51-1, Peradipic acid
21860-08-2, Perglycolic acid 28317-46-6, Perglutaric
acid 33734-57-5, Peroctanoic acid 128275-31-0,
Phthalimidoperhexanoic acid 347400-05-9 347400-06-0
347400-07-1 347839-46-7 347839-47-8
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT 7722-84-1, Hydrogen peroxide, formation (nonpreparative)
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(methods and agents for cleaning and **disinfecting** fragile medical appliances)
- IT 2279-96-1, Persuccinic acid 5824-51-1, Peradipic
acid 28317-46-6, Perglutaric acid
347400-05-9 347400-06-0 347400-07-1
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(methods and agents for cleaning and **disinfecting** fragile

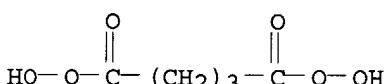
medical appliances)
 RN 2279-96-1 HCAPLUS
 CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



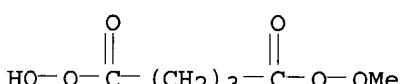
RN 5824-51-1 HCAPLUS
 CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)



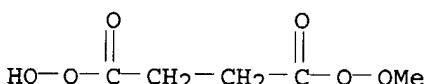
RN 28317-46-6 HCAPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



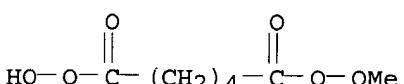
RN 347400-05-9 HCAPLUS
 CN Pentanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



RN 347400-06-0 HCAPLUS
 CN Butanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



RN 347400-07-1 HCAPLUS
 CN Hexanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



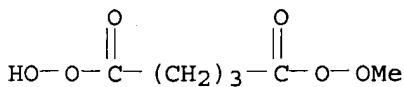
L85 ANSWER 7 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:489181 HCAPLUS
 DN 135:82067
 ED Entered STN: 06 Jul 2001
 TI Peroxy acids esters with excellent surface adhesion for surface disinfection and cleaning.
 IN Bragulla, Siegfried; Laufenberg, Alfred; Kluschanzoff, Harald

PA Henkel Ecolab G.m.b.H. + Co. o.H.G., Germany
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N037-16
 ICS A01N025-30; C11D003-48; A01N037-16; A01N059-00; A01N037-16;
 A01N037-04; A01N037-02
 CC 63-8 (Pharmaceuticals)
 Section cross-reference(s) : 5
 FAN.CNT 1

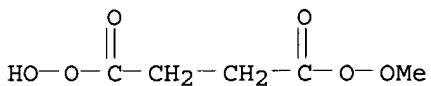
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001047359	A2	20010705	WO 2000-EP12689	20001214 <--
	WO 2001047359	A3	20020516		
	W: US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 19962342	A1	20010712	DE 1999-19962342	19991223 <--
	EP 1239730	A2	20020918	EP 2000-990742	20001214 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	US 2003133956	A1	20030717	US 2002-168612	20020624 <--
	US 6683040	B2	20040127		
	US 2003220216	A1	20031127	US 2003-462454	20030616 <--
PRAI	DE 1999-19962342	A	19991223	<--	
	WO 2000-EP12689	W	20001214	<--	
	US 2002-168612	A3	20020624		
OS	MARPAT 135:82067				
AB	The invention relates to the use of peroxy acid esters for improving surface adhesion during the disinfection of surfaces and to synergistic antimicrobial combinations of peroxy acid esters and addnl. constituents, such as the corresponding alcs. and the free peroxy acids.				
ST	peroxy acid ester surface disinfectant cleanser				
IT	Peroxy acids				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(esters; surface disinfection and cleaning agents containing)				
IT	Peroxides, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(fatty alkyl, carboxy; surface disinfection and cleaning agents containing peroxy acids esters and)				
IT	Fatty acids, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(peroxy; surface disinfection and cleaning agents containing peroxy acids esters and)				
IT	Disinfectants				
	Scouring agents				
	(surface disinfection and cleaning agents containing peroxy acids esters and)				
IT	347400-05-9 347400-06-0 347400-07-1				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(surface disinfection and cleaning agents containing)				
IT	67-56-1, Methanol, biological studies 79-21-0, Peracetic acid 2279-96-1, Persuccinic acid 4212-43-5, Perpropionic acid 5824-51-1D, Peradipic acid, 1 28317-46-6, Perglutaric acid 128275-31-0				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(surface disinfection and cleaning agents containing peroxy acids				

esters and)

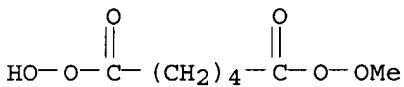
IT 347400-05-9 347400-06-0 347400-07-1
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (surface **disinfection** and cleaning agents containing)
 RN 347400-05-9 HCAPLUS
 CN Pentanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



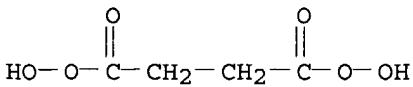
RN 347400-06-0 HCAPLUS
 CN Butanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



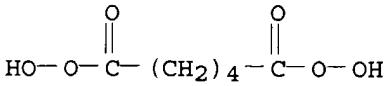
RN 347400-07-1 HCAPLUS
 CN Hexanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



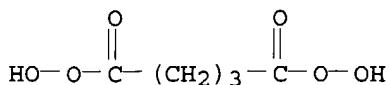
IT 2279-96-1, Persuccinic acid 5824-51-1D,
 Peradipic acid, 1 28317-46-6,
Perglutaric acid
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (surface **disinfection** and cleaning agents containing peroxy acids
 esters and)
 RN 2279-96-1 HCAPLUS
 CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



RN 5824-51-1 HCAPLUS
 CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)



RN 28317-46-6 HCAPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 8 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:488498 HCAPLUS
 DN 135:78599
 ED Entered STN: 06 Jul 2001
 TI Peracid-containing **disinfecting** laundry composition for delicate fabrics and its application
 IN Koerber, Heinz-otto; Merz, Thomas; Roth, Christian; Meyer, Bernhard
 PA Henkel-Ecolab G.m.b.H. & Co Ohg, Germany
 SO Ger. Offen., 10 pp.
 CODEN: GWXXBX
 DT **Patent**
 LA German
 IC ICM D06L003-02
 ICS D06L001-22
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19962343	A1	20010705	DE 1999-19962343	19991223 <--
	WO 2001048136	A1	20010705	WO 2000-EP12695	20001214 <--
	W: CA, PL, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1240300	A1	20020918	EP 2000-983318	20001214 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	US 2003045443	A1	20030306	US 2002-168426	20020621 <--
	US 6693069	B2	20040217		
PRAI	DE 1999-19962343	A	19991223	<--	
	WO 2000-EP12695	W	20001214	<--	
OS	MARPAT 135:78599				
AB	Disinfecting compns. for washing of delicate textiles comprise a combination of peracid and at least one fatty acid and/or at least one hydrotrope and or at least one surfactant and/or at least one complex-forming component. An example comprised 10% perglutaric acid monomethyl ester solution 80, alkylbenzenesulfonate 10, and water 10 weight%; application to wool showed effectiveness on S. aureus and E. coli without excessive adverse effects on the phys. properties of the fabric.				
ST	peracid disinfectant laundering delicate fabric				
IT	Surfactants (amphoteric; in peracid-containing disinfecting laundry compns. for delicate fabrics)				
IT	Surfactants (anionic; in peracid-containing disinfecting laundry compns. for delicate fabrics)				
IT	Surfactants (cationic; in peracid-containing disinfecting laundry compns. for delicate fabrics)				
IT	Amine oxides RL: TEM (Technical or engineered material use); USES (Uses) (cocoalkyldimethyl; in peracid-containing disinfecting laundry compns. for delicate fabrics)				
IT	Disinfectants (detergent; peracid-containing disinfecting laundry compns. for delicate fabrics)				

- IT Detergents
 - (**disinfectant**; peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Hydrotropes
 - (in peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Protein hydrolyzates
 - RL: PEP (Physical, engineering or chemical process); PROC (Process)
(in peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Amine oxides
 - RL: TEM (Technical or engineered material use); USES (Uses)
(in peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Fatty acids, uses
 - RL: TEM (Technical or engineered material use); USES (Uses)
(in peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Detergents
 - (laundry; peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Surfactants
 - (nonionic; in peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Acetate fibers, processes
- Acrylic fibers, processes
- Polyamide fibers, processes
- Rayon, processes
 - RL: PEP (Physical, engineering or chemical process); PROC (Process)
(peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Carboxylic acids, uses
 - RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(peroxy; peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Rayon, processes
 - RL: PEP (Physical, engineering or chemical process); PROC (Process)
(reconstituted; peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Textiles
 - (silk; peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT Textiles
 - (wool; peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT 7722-84-1, Hydrogen peroxide, uses
 - RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(in peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., salts, uses 124-07-2,
Octanoic acid, uses 3944-72-7D, 1-Octanesulfonic acid, salts
5324-84-5, Sodium 1-octanesulfonate 7440-21-3D, Silicon, compds., uses
7664-38-2D, Phosphoric acid, esters, uses 25155-19-5D,
Naphthalenesulfonic acid, salts 25321-41-9D, Xenesulfonic acid, salts
RL: TEM (Technical or engineered material use); USES (Uses)
(in peracid-containing **disinfecting laundry compns.** for delicate fabrics)
- IT 347400-06-0
 - RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(monomethyl ester; peracid-containing **disinfecting laundry**

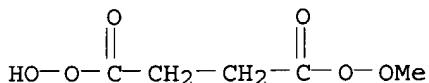
compns. for delicate fabrics)

IT 79-21-0, Peracetic acid 2279-96-1, Butanediperoxoic acid
 4212-43-5, Perpropionic acid 5824-51-1, **Hexanediperoxoic acid** 28317-46-6, **Pantanediperoxoic acid** 33734-57-5, Peroctanoic acid 128275-31-0
347400-05-9 347400-07-1 347839-46-7
 RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
 (peracid-containing **disinfecting** laundry compns. for delicate fabrics)

IT **347400-06-0**
 RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
 (monomethyl ester; peracid-containing **disinfecting** laundry compns. for delicate fabrics)

RN 347400-06-0 HCAPLUS

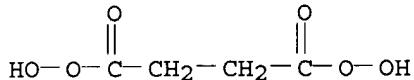
CN Butanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



IT 2279-96-1, Butanediperoxoic acid 5824-51-1,
Hexanediperoxoic acid 28317-46-6,
Pantanediperoxoic acid 347400-05-9
347400-07-1
 RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
 (peracid-containing **disinfecting** laundry compns. for delicate fabrics)

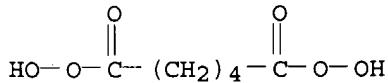
RN 2279-96-1 HCAPLUS

CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



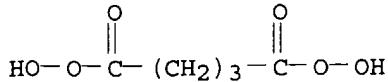
RN 5824-51-1 HCAPLUS

CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)



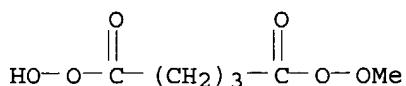
RN 28317-46-6 HCAPLUS

CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)

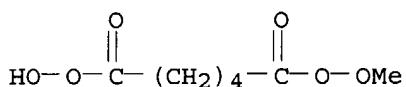


RN 347400-05-9 HCAPLUS

CN Pantanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



RN 347400-07-1 HCAPLUS
 CN Hexanediperoxoic acid, monomethyl ester (9CI) (CA INDEX NAME)



L85 ANSWER 9 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:351405 HCAPLUS
 DN 133:3966
 ED Entered STN: 26 May 2000
 TI Beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition
 IN Richter, Francis L.; Cords, Bruce R.; Besse, Michael E.; Nogami, Kenji
 PA Ecolab Inc., USA
 SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61L002-18

ICS B65B055-10

CC 17-4 (Food and Feed Chemistry)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000029038	A1	20000525	WO 1999-US24422	19991018 <--
	W: AU, BR, CA, CN, JP, KR, MX, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6326032	B1	20011204	US 1998-195750	19981118 <--
	AU 9965205	A1	20000605	AU 1999-65205	19991018 <--
	AU 760679	B2	20030522		
	BR 9915324	A	20010807	BR 1999-15324	19991018 <--
	EP 1133320	A1	20010919	EP 1999-953230	19991018 <--
	EP 1133320	B1	20031203		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002529113	T2	20020910	JP 2000-582083	19991018 <--
	TW 431895	B	20010501	TW 1999-88120049	19991210 <--
PRAI	US 1998-195750	A	19981118 <--		
	WO 1999-US24422	W	19991018 <--		
AB	A peroxyacid antimicrobial comprises a C1-4 peroxycarboxylic acid or a C1-4 peroxycarboxylic acid combined with a C6-18 peroxy acid in beverage processing. The combination of these materials produces a synergistic effect, providing a much more potent biocide than can be obtained by using these components sep. Other components can be added to the composition such as hydrotrope coupling agents, stabilizers, etc. An effective antimicrobial solution is formed at low concns. when the concentrate composition is				
	diluted with water to a pH in the range of about 2-8. Thus, the peroxycarboxylic acid may comprise peroxyacetic or peroxyglycolic acids; the peroxy acids may include peroxyoctanoic acid, peroxydecanoic acid, etc. The composition may be used to sanitize fixed, "in-place" processing lines in dairies, breweries, and other food and beverage processing operations. A further use is in processes including aseptic cold filling				

- of beverage containers such as cans, glass bottles or 2-L PET bottles.
- ST beverage bottling antimicrobial peroxy acid
- IT Peroxy acids
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (C6-18; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT Fatty acids, biological studies
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (C8-10; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT Antimicrobial agents
 Arthrinium
 Arthrinium sacchari
 Bottles
 Canning
 Chaetomium
 Chaetomium bostrychodes
Cleaning
 Escherichia coli
 Fungicides
 Hydrotropes
 Staphylococcus aureus
 (beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT Tea products
 (beverages; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT Beverages
 (carbonated; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT Beverages
 (fruit drinks; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT Carboxylic acids, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (peroxy, C1-4; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT Beverages
 (plant; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT 79-21-0, Peroxyacetic acid 5106-46-7, Peroxyhexanoic acid
5796-85-0, Diperoxysebacic acid
5824-51-1, Diperoxyadipic acid 7722-84-1,
 Hydrogen peroxide, biological studies 14156-10-6, Peroxydecanoic acid
 21860-08-2, Peroxyglycolic acid 33734-57-5, Peroxyoctanoic acid
 77155-29-4 93691-93-1
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT 270904-17-1, NAS 8D
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)
- IT 2809-21-4, Dequest 2010
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (chelating agent; beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ecolab Incorporated; WO 9201669 A1 1992 HCPLUS
 (2) Henkel KGAA; DE 4443177 A1 1996 HCPLUS
 (3) Interox Chemicals Limited; GB 2257630 A 1993 HCPLUS

IT 5796-85-0, Diperoxysebacic acid

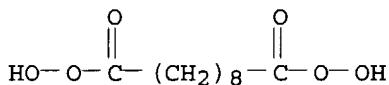
5824-51-1, Diperoxyadipic acid

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)

(beverage manufacture and cold aseptic bottling using peroxyacid antimicrobial composition)

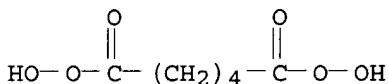
RN 5796-85-0 HCPLUS

CN Decanediperoxoic acid (9CI) (CA INDEX NAME)



RN 5824-51-1 HCPLUS

CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 10 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2000:140634 HCPLUS

DN 132:179839

ED Entered STN: 01 Mar 2000

TI Sterilization of meat products and antimicrobial compositions

IN Gutzmann, Timothy A.; Anderson, Brian J.; Reed, Pamela J.; Cords, Bruce R.; Grab, Lawrence A.; Richardson, Edward H.

PA Ecolab Inc., USA

SO Jpn. Kokai Tokkyo Koho, 65 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A23B004-12

ICS A23B004-14

CC 17-4 (Food and Feed Chemistry)

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000060418	A2	20000229	JP 1999-231086	19990818 <--
	US 6010729	A	20000104	US 1998-137242	19980820 <--
	US 6113963	A	20000905	US 1999-368452	19990820 <--
PRAI	US 1998-137242	A	19980820 <--		
	US 1999-368452	A	19990820 <--		
AB	Microbial population in meat products is reduced by treating the products with an antimicrobial composition comprising (i) an effective antimicrobial amount comprising ≥ 2 ppm of ≥ 1 C ≤ 12 mono- or diperoxycarboxylic acids and (ii) an effective antimicrobial amount comprising ≥ 20 ppm of ≥ 1 C ≤ 18 carboxylic acids.				
	Treatment of prerigor beef samples with a combination of (a) steam, (b) a composition containing H ₂ O ₂ , peroxyacetic acid-peroxyoctanoic acid mixture, AcOH, octanoic acid, hydroxyethylidene-1,1-diphosphonic acid, and Na				

octane-mixed mono- and (d) **sterile** water rinse reduced average CFU at log₁₀ reduction 2.55.

ST meat product **sterilization** peroxy carboxylic acid lactate

IT **Carboxylic acids**, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(C1-18; **sterilization** of meat products with antimicrobial compns. containing mono- or **diperoxycarboxylic** acids and carboxylic acids)

IT Meat
(beef; **sterilization** of meat products with antimicrobial compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Meat
(chicken; **sterilization** of meat products with antimicrobial compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Meat
(game hen; **sterilization** of meat products with antimicrobial compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT **Carboxylic acids**, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(hydroxy, C3-6; **sterilization** of meat products with antimicrobial compns. containing mono- or **diperoxycarboxylic** acids and carboxylic acids)

IT Meat
(lamb; **sterilization** of meat products with antimicrobial compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Buffalo
Buffalo
Pheasant
Struthio camelus
(meat; **sterilization** of meat products with antimicrobial compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Solvents
(organic; **sterilization** of meat products with antimicrobial compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT **Carboxylic acids**, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(peroxy, C≤12; **sterilization** of meat products with antimicrobial compns. containing mono- or **diperoxycarboxylic** acids and carboxylic acids)

IT Meat
(pork; **sterilization** of meat products with antimicrobial compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Antibacterial agents
Antimicrobial agents
Crab
Escherichia coli
Gelation agents
Hydrotropes
Lobster
Mussel
Octopus (molluscan common name)
Pathogen
Scallop
Sequestering agents
Shrimp
Squid

Thickening agents
 (sterilization of meat products with antimicrobial compns.
 containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Meat
 (turkey; sterilization of meat products with antimicrobial
 compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Meat
 (veal; sterilization of meat products with antimicrobial
 compns. containing mono- or diperoxycarboxylic acids and carboxylic acids)

IT Meat
 Meat
 (water buffalo; sterilization of meat products with
 antimicrobial compns. containing mono- or diperoxycarboxylic acids and
 carboxylic acids)

IT 2809-21-4, 1-Hydroxyethylidene-1,1-diphosphonic acid
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (sequestering agent; sterilization of meat products with
 antimicrobial compns. containing mono- or diperoxycarboxylic acids and
 carboxylic acids)

IT 50-21-5, Lactic acid, biological studies 64-19-7, Acetic acid,
 biological studies 79-21-0, Peroxyacetic acid 124-07-2, Octanoic acid,
 biological studies 7722-84-1, Hydrogen peroxide, biological studies
 14156-10-6, Peroxydecanoic acid 33734-57-5, Peroxyoctanoic acid
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); FFD (Food or feed use); BIOL (Biological study);
 USES (Uses)
 (sterilization of meat products with antimicrobial compns.
 containing mono- or diperoxycarboxylic acids and carboxylic acids)

L85 ANSWER 11 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:808289 HCPLUS
 DN 132:85125
 ED Entered STN: 23 Dec 1999
 TI Corrosion resistance of medical steels in peroxide-based
 disinfecting solutions
 AU Roi, I. D.; Sevidova, E. K.; Blazheevskii, N. E.; Levitin, E. Ya.
 CS Ukrainian Pharmaceutical Academy, Kharkov, 310002, Ukraine
 SO Protection of Metals (Translation of Zashchita Metallov) (1999),
 35(6), 589-591
 CODEN: PTNMAR; ISSN: 0033-1732
 PB MAIK Nauka/Interperiodica Publishing
 DT Journal
 LA English
 CC 72-6 (Electrochemistry)
 Section cross-reference(s): 55, 63
 AB The results of electrochem. and gravimetric studies of the corrosion
 resistance of medical steels of the 12Kh18N10T and 4Kh13 types in
 disinfecting solns. containing carboxylic acid peroxides are set
 forth. Solns. based on diperoxyadic acid (Nebis)
 and water-tert-butanol mixture of monoperoxycarboxylic acids (C7-C9)
 (Peronix) were characterized by a lower corrosivity than those based on
 formic and acetic acids.
 ST corrosion resistance medical steel peroxide based disinfecting
 soln
 IT Peroxy acids
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical
 process); PRP (Properties); PROC (Process); USES (Uses)
 (C7-9; corrosion resistance of medical steels in disinfecting
 solns. containing a mixture of C7-C9 monoperoxycarboxylic acids in
 tert-Butanol/H2O (Peronix))
 IT Disinfectants
 (corrosion resistance of medical steels in solns. containing)
 IT Tools

- (medical; corrosion resistance of medical steels in peroxidate-based **disinfecting** solns.)
- IT Corrosion
Electrolytic polarization
(of medical steels in **disinfecting** solns.)
- IT 7722-84-1, Hydrogen peroxide, uses
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(corrosion resistance of medical steels in **disinfecting** solns. containing)
- IT 59593-05-4, Desoxon
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(corrosion resistance of medical steels in **disinfecting** solns. containing Desoxon)
- IT 79-21-0, Desoxon 1
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(corrosion resistance of medical steels in **disinfecting** solns. containing Desoxon-1)
- IT 254106-20-2, Nebis
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(corrosion resistance of medical steels in **disinfecting** solns. containing Nebis)
- IT 60918-61-8, Pervomur
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(corrosion resistance of medical steels in **disinfecting** solns. containing Pervomur)
- IT 75-65-0, tert-Butyl alcohol, uses 254106-25-7, Peronix
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(corrosion resistance of medical steels in **disinfecting** solns. containing aqueous tert-Bu alc. and Peronix)
- IT 12597-69-2, Steel, properties 39412-98-1, 4Kh13 50947-31-4, 12Kh18N10T
RL: PEP (Physical, engineering or chemical process); PRP (Properties);
PROC (Process)
(corrosion resistance of medical steels in peroxidate-based **disinfecting** solns.)

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; OST (Branch Standard) 251-005-87 1988
- (2) Anon; OST (Branch Standard) 42-21-2-85 1985
- (3) Blazheevskii, N; UA 95020605 1995
- (4) Blazheevskii, N; Promislova vlasnost 1995, 1, P3.11
- (5) Chekhina, T; Zashch Met 1987, V23(2), P275
- (6) Freiman, L; Potentiostatic Methods in the Study of Corrosion and Electrochemical Protection 1972
- (7) Freiman, L; Potentsiostaticheskie metody v korrozionnykh issledovaniyakh i elektrokhimicheskoi zashchite 1972
- (8) Kazhdan, V; Instruction for the Application of Pervomur in the Sterilization of Surgical Tools Suture Materials and Surgeon's Gloves 1972
- (9) Kazhdan, V; Instruktsiya po primeneniyu Pervomura dlya sterilizatsii khirurgicheskikh instrumentov shovnogo materiala i khirurgicheskikh perchatok 1972
- (10) Khachatryan, E; Zashch Met 1978, V14(3), P326 HCPLUS
- (11) Kuznetsov, S; Zashch Met 1975, V11(6), P726
- (12) Marshakov, A; Zashch Met 1994, V30(3), P238 HCPLUS
- (13) Mikhailovskii, Y; Zashch Met 1986, V22(5), P692 HCPLUS
- (14) Molodov, A; Elektrokhimiya 1982, V18(8), P1068 HCPLUS

AN 1999:113923 HCAPLUS
 DN 130:172756
 ED Entered STN: 19 Feb 1999
 TI Agent for oxidative treatment of human hair
 IN Till, Lothar; Guenther, Dirk; Goebe, Matthias
 PA Germany
 SO Ger. Offen., 4 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM A61K007-135
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19733841	A1	19990211	DE 1997-19733841	19970805 <--
PRAI DE 1997-19733841		19970805 <--		

AB Peroxy derivs. of carboxylic acids are **stable** sources of active (nascent) O in dry compns. for bleaching, lightening, blonding, and decolorizing the hair. These compds. show good dermatol. properties, water solubility, and biodegradability. Release of active O from the compds. is regulated by constituents in the composition which regulate the alkalinity, so as to prevent the decrease in O release rate which otherwise occurs in the 2nd half of the treatment time. These constituents comprise pH regulators, pH buffers, and catalysts. Thus, an 8% aqueous solution of Mg monoperphthalate bleached hair approx. as rapidly as 8% aqueous H₂O₂ solution, but did so more uniformly, and oxidative damage to the hair was more isotropic than with H₂O₂. A suitable bleaching composition contained Mg monoperphthalate 30, calcined Na₂CO₃ 10, NaH₂PO₄ 10, ferrous gluconate 0.05, and excipients to 100 weight% in **powdered** or granular form.

ST hair bleach peroxy acid; org peroxy acid hair bleach
 IT Buffers
 Catalysts
 Grains (particles)
 (agent for oxidative treatment of human hair)
 IT Carbonates, biological studies
 Per compounds
 Phosphates, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (agent for oxidative treatment of human hair)
 IT Reactive oxygen species
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (agent for oxidative treatment of human hair)
 IT Carboxylic acids, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (aromatic, peroxy; agent for oxidative treatment of human hair)
 IT Hair preparations
 (bleaches; agent for oxidative treatment of human hair)
 IT Carboxylic acids, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (dicarboxylic, peroxy; agent for oxidative treatment of human hair)
 IT Carboxylic acids, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (peroxy; agent for oxidative treatment of human hair)
 IT Cosmetics
 (powders; agent for oxidative treatment of human hair)
 IT pH

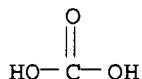
IT (regulators of; agent for oxidative treatment of human hair)
 Carboxylic acids, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (unsatd., dicarboxylic, peroxy; agent for oxidative treatment of human hair)

IT 497-19-8, Sodium carbonate, biological studies 2311-91-3,
 Monoperoxyphthalic acid 3504-13-0 4565-24-6, Peroxymaleic acid
 7558-80-7, Sodium dihydrogen phosphate 13252-21-6 21860-08-2,
 Peroxyglycolic acid 75033-25-9 109536-69-8
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (agent for oxidative treatment of human hair)

IT 299-29-6, Ferrous gluconate
 RL: BUU (Biological use, unclassified); CAT (Catalyst use); BIOL (Biological study); USES (Uses)
 (agent for oxidative treatment of human hair)

IT 497-19-8, Sodium carbonate, biological studies 4565-24-6
 , Peroxymaleic acid
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (agent for oxidative treatment of human hair)

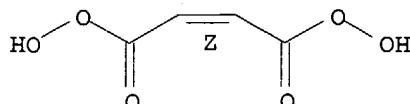
RN 497-19-8 HCPLUS
 CN Carbonic acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

RN 4565-24-6 HCPLUS
 CN 2-Butenediperoxoic acid, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L85 ANSWER 13 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:26332 HCPLUS
 DN 130:53987
 ED Entered STN: 14 Jan 1999
 TI Peracid-based composition for cleaning, **disinfection**, and
 decontamination of surfaces contaminated by toxic agents
 IN Leuthy, Michel
 PA Quadrimex S. A., Fr.
 SO Fr. Demande, 18 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 IC ICM C11D003-39
 ICS C11D001-835
 CC 46-6 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2761080	A1	19980925	FR 1997-3479	19970321 <--
	FR 2761080	B1	20020719		
PRAI	FR 1997-3479		19970321 <--		
OS	MARPAT 130:53987				
AB	Title compns., which are effective against toxic organophosphorus and organosulfur compds., contain organic peracids, quaternary ammonium surfactants, and nonionic surfactants.				
ST	disinfectant detergent peracid surface; nonionic surfactant				
	disinfectant detergent surface; quaternary ammonium surfactant				
	disinfectant detergent surface				
IT	Phenols, uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (alkyl; peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	Disinfectants				
	Disinfectants (detergent; peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	Detergents				
	Detergents (disinfectant ; peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	Fatty acids, uses				
	Polyoxyalkylenes, uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (esters; peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	Fatty acids, uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (ethoxylated; peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	Surfactants				
	(nonionic; peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	Polyoxyalkylenes, uses				
	Quaternary ammonium compounds, uses				
	Thiols (organic), uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	Carboxylic acids, uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (peroxy, organic; peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	57-09-0, Cetyltrimethylammonium bromide 79-21-0, Peracetic acid				
	112-02-7, Cetyltrimethylammonium chloride 122-18-9,				
	Benzylcetyltrimethylammonium chloride 2388-12-7, Perdodecanoic acid				
	3529-04-2, Cetylbenzyltrimethylammonium bromide 4212-43-5, Perpropionic acid 5880-39-7 14156-10-6, Perdecanoic acid 15630-89-4,				
	Sodium percarbonate 19816-73-0, Pertetradecanoic acid 24625-03-4,				
	Cetyltrimethyl-2-hydroxyethylammonium chloride 25322-68-3, Polyethylene glycol 36411-33-3 62634-16-6, Cetyl-1,4-diazabicyclo[2.2.2]octylammonium bromide 66280-55-5, Dodecanediperoxoic acid 78948-87-5,				
	Magnesium monoperoxyphthalate				
	RL: TEM (Technical or engineered material use); USES (Uses) (peracid-based composition for cleaning, disinfection , and decontamination of surfaces contaminated by toxic agents)				
IT	15630-89-4, Sodium percarbonate 66280-55-5,				
	Dodecanediperoxoic acid				
	RL: TEM (Technical or engineered material use); USES (Uses)				

(peracid-based composition for cleaning, **disinfection**, and decontamination of surfaces contaminated by toxic agents)

RN 15630-89-4 HCPLUS

CN Carbonic acid disodium salt, compd. with hydrogen peroxide (H₂O₂) (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 7722-84-1

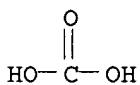
CMF H₂ O₂

HO—OH

CM 2

CRN 497-19-8

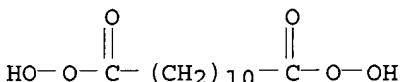
CMF C H₂ O₃ . 2 Na



●2 Na

RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 14 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1998:105975 HCPLUS

DN 128:155842

ED Entered STN: 21 Feb 1998

TI Forming a peracids and compositions containing the same, useful in laundry and general cleaning and **disinfection**

IN Bianchetti, Giulia Ottavia; Campestrini, Sandro; Di Furia, Fulvio; Scialla, Stefano

PA Procter and Gamble Company, USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C11D

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9804659	A2	19980205	WO 1997-US12824	19970722 <--
	WO 9804659	A3	19980514		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,

LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ,
 VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN,
 ML, MR, NE, SN, TD, TG
 EP 822183 A2 19980204 EP 1996-202168 19960731 <--
 EP 822183 A3 19980729
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
 AU 9738084 A1 19980220 AU 1997-38084 19970722 <--
 CN 1231599 A 19991013 CN 1997-198352 19970722 <--
 JP 11514040 T2 19991130 JP 1997-508934 19970722 <--
 US 5968885 A 19991019 US 1997-981372 19971218 <--
 PRAI EP 1996-202168 A 19960731 <--
 EP 1996-870054 A 19960422 <--
 WO 1996-US10906 W 19960626 <--
 WO 1997-US12824 W 19970722 <--
 OS MARPAT 128:155842
 AB The title process comprises reacting in an aqueous medium an alpha mono alkylated carboxylic acid and/or an alpha mono alkoxylated carboxylic acid with hydrogen peroxide or a water-soluble source thereof. The title compns. comprise an alpha mono alkylated percarboxylic acid and/or alpha mono alkoxylated percarboxylic acid; or an alpha mono alkylated carboxylic acid and/or alpha mono alkoxylated carboxylic acid and hydrogen peroxide or a water-soluble source thereof. A composition comprised Dobanol 91-10 1.2,
 Dobanol
 91-2.5 4.8, hydrogen peroxide 7, 2-methylperglutaric acid 1.8, citric acid 6, sulfuric acid 1.9, perfume 0.5, and water to 100%.
 ST peracid compn laundry cleaning **disinfection**; carboxylic acid
 peracid compn
 IT Alcohols, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (C9-11, ethoxylated, Dobanol 91-10; forming a peracids and compns.
 containing the same, useful in laundry and general cleaning and
disinfection)
 IT Carboxylic acids, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dicarboxylic; forming a peracids and compns. containing the same, useful
 in laundry and general cleaning and **disinfection**)
 IT Detergents
Disinfectants
 (forming a peracids and compns. containing the same, useful in laundry and
 general cleaning and **disinfection**)
 IT Detergents
 (laundry; forming a peracids and compns. containing the same, useful in
 laundry and general cleaning and **disinfection**)
 IT Carboxylic acids, uses
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (peroxy; forming a peracids and compns. containing the same, useful in
 laundry and general cleaning and **disinfection**)
 IT 202478-88-4P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (forming a peracids and compns. containing the same, useful in laundry and
 general cleaning and **disinfection**)
 IT 79-31-2, 2-Methylpropionic acid 116-53-0 498-21-5, 2-Methylsuccinic
 acid 617-26-5, 2-Ethylglutaric acid 617-62-9, 2-Methylglutaric acid
 626-70-0, 2-Methyladipic acid 1726-80-3, 2-Methoxysuccinic acid
 2121-67-7, 2,4-Dimethylglutaric acid 2874-74-0, 2-Methylauric acid
 2874-75-1, 2-Ethyllauric acid 3004-93-1, 2-Methyloctanoic acid
 4536-23-6, 2-Methylhexanoic acid 7722-84-1, Hydrogen peroxide, reactions
 13545-04-5, 2,3-Dimethylsuccinic acid 52017-57-9, 2-Methylpimelic acid
 66018-23-3, 2-Methoxyoctanoic acid 86797-93-5 101452-98-6

202478-89-5 202478-90-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(forming a peracids and compns. containing the same, useful in laundry and general cleaning and **disinfection**)IT 77-92-9, Citric acid, uses 5615-78-1, 2-Methylpersuccinic acid
5695-92-1, 2-Methylperglutaric acid

RL: TEM (Technical or engineered material use); USES (Uses)

(forming a peracids and compns. containing the same, useful in laundry and general cleaning and **disinfection**)

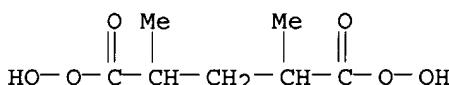
IT 202478-88-4P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(forming a peracids and compns. containing the same, useful in laundry and general cleaning and **disinfection**)

RN 202478-88-4 HCPLUS

CN Pentanediperoxoic acid, 2,4-dimethyl- (9CI) (CA INDEX NAME)



L85 ANSWER 15 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1997:384253 HCPLUS

DN 127:6370

ED Entered STN: 20 Jun 1997

TI Bleaching or washing composition for a fabric or dishes

IN Reinehr, Dieter; Metzger, Georges

PA CIBA Ltd., Switz.; Reinehr, Dieter; Metzger, Georges

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C11D003-39

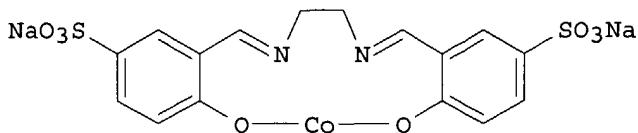
ICS C07F015-06; C07C251-24; C07C215-50; C07C215-76

CC 46-6 (Surface Active Agents and Detergents)

Section cross-reference(s): 29

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9714779	A1	19970424	WO 1996-EP4353	19961007 <--
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9672872	A1	19970507	AU 1996-72872	19961007 <--
	EP 876464	A1	19981111	EP 1996-934567	19961007 <--
	R: BE, CH, DE, FR, GB, IT, LI, NL				
	JP 11515049	T2	19991221	JP 1996-515478	19961007 <--
	US 6228127	B1	20010508	US 1998-51464	19980410 <--
PRAI	GB 1995-21431	A	19951019	<--	
	GB 1996-9549	A	19960508	<--	
	WO 1996-EP4353	W	19961007	<--	
OS	MARPAT	127:6370			
GI					

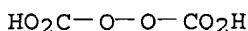


- AB A bleaching or washing composition comprises a peroxy compound and a specified Co complex bleach activator (0.005-0.05%). CoCl₂ aqueous solution was added to aqueous solution containing 5-sulfosalicylaldehyde disodium salt and refluxed 3 h, followed by coupling with ethylenediamine to give the Co complex I. A wash composition containing H₂O₂, I (5 µmol), and surfactant wash powder was used to wash a soiled cotton test swatch; showing brightness value 15.0, vs. <10 using 10 µmol H₂O₂ only.
- ST cobalt complex bleach activator; sulfosalicylaldehyde cobalt complex diamine manuf use
- IT Bleaching agents
(activator; cobalt complex bleach activator in bleaching or washing composition for a fabric or dishes)
- IT Detergents
(bleach activator in bleaching or washing composition for a fabric or dishes)
- IT 15306-22-6P 81670-29-3P 81670-30-6P 81704-61-2P 190013-82-2P
190013-83-3P 190013-84-4P 190013-85-5P 190013-86-6P 190013-87-7P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(bleach activator in bleaching or washing composition for a fabric or dishes)
- IT 7722-84-1, Hydrogen peroxide, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(bleach activator in bleaching or washing composition for a fabric or dishes)
- IT 93-59-4, Peroxybenzoic acid 124-43-6 1786-87-4, Diperoxyisophthalic acid 2388-12-7, Peroxylauric acid 3313-92-6, Sodium percarbonate 7632-04-4, Sodium perborate 10543-57-4, N,N,N',N'-Tetraacetyl ethylenediamine 39186-66-8 56265-04-4, Sodium 4-benzoyloxy benzenesulfonate 66280-55-5, 1,12-Diperoxydodecanedioic acid 91125-43-8 125729-84-2 173062-54-9 174829-11-9 190013-88-8 190088-08-5
RL: TEM (Technical or engineered material use); USES (Uses)
(bleach agent; bleach activator in bleaching or washing composition for a fabric or dishes)
- IT 95-54-5, 1,2-Diaminobenzene, reactions 107-15-3, Ethylenediamine, reactions 109-76-2, 1,3-Diaminopropane 110-60-1, 1,4-Diaminobutane 39070-63-8, 3,4-Diaminobenzophenone
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling with cobalt complex; bleach activator in bleaching or washing composition for a fabric or dishes)
- IT 1194-98-5, 2,5-Dihydroxybenzaldehyde
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with diamino-m-xylene for intermediate for bleach activator; bleach activator in bleaching or washing composition for a fabric or dishes)
- IT 1477-55-0, α,α'-Diamino-m-xylene
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with dihydroxybenzaldehyde for intermediate for bleach activator; bleach activator in bleaching or washing composition for a fabric or dishes)
- IT 3313-92-6, Sodium percarbonate 7632-04-4, Sodium perborate 66280-55-5, 1,12-Diperoxydodecanedioic acid

RL: TEM (Technical or engineered material use); USES (Uses)
 (bleach agent; bleach activator in bleaching or washing composition for a
 fabric or dishes)

RN 3313-92-6 HCPLUS

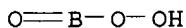
CN Peroxydicarbonic acid, disodium salt (8CI, 9CI) (CA INDEX NAME)



● 2 Na

RN 7632-04-4 HCPLUS

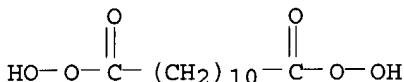
CN Perboric acid ($\text{HBO(O}_2\text{)}$), sodium salt (9CI) (CA INDEX NAME)



● Na

RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 16 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1996:376859 HCPLUS

DN 125:36377

ED Entered STN: 28 Jun 1996

TI Aqueous solutions containing perdicarboxylic acids

IN Abe, Ritsuo; Hashimoto, Shinpei; Oohashi, Hideko

PA Nippon Peroxide Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07C409-34

ICS C02F001-50; D06L001-12; D06L003-02

ICA A01N037-16; C11D007-38

CC 46-6 (Surface Active Agents and Detergents)

Section cross-reference(s): 23

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08067667	A2	19960312	JP 1995-144136	19950519 <--
PRAI	JP 1994-162956		19940622 <--		
AB	Title solns., useful for bleaching, washing, sterilization, etc., from composite dicarboxylic acids containing glutaric acid (I) and succinic acid (II) optionally associated with adipic acid (III), which contain 0.05-1.0 mol/(kg solution) (based on dicarboxylic acid conversion) perdicarboxylic acids (A), 0.2-2.2 mol/(kg solution) total dicarboxylic acids except A, 1.0-12.0 mol/(kg solution) H2O2, and 0.01-3.0% stabilizers at 0.1-0.7 mol/(kg solution) II optionally associated with 0.02-0.2 mol/(kg				

solution) III and at 0.1-2.0 mol (based on 1 mol I including **perglutaric acid**) dicarboxylic acids except I, are prepared by treating aqueous dicarboxylic acids with ion-exchanger resins or chelating agent resins to reduce total concentration of Fe, Cu, Ni, Cr, Mn, and Zn to ≤ 2.0 mg/kg and treating with H₂O₂ in the presence of **stabilizers**. Thus, aqueous mixture of I 0.50, II 0.56, and III 0.14 mol/(kg solution) was treated by Amberlite IR 124, and then the resulting solution with heavy metal content ≤ 1 mg/(kg solution) was treated with 60% aqueous H₂O₂ and 60% aqueous 1-hydroxyethylidene-1,1-diphosphonic acid at 50° for 72 h and left at 2-3° for 4 days to show no precipitation

ST aq soln perdicarboxylic acid prepn; hydrogen peroxide dicarboxylic acid oxidn; **perglutaric acid** mixt aq soln; persuccinic acid mixt aq soln; **peradipic acid** mixt aq soln; heavy metal removal dicarboxylic acid; bleaching agent perdicarboxylic acid prepn; **sterilization** perdicarboxylic acid prepn; detergent perdicarboxylic acid prepn; ion exchanging resin pretreatment; chelating agent resin pretreatment

IT Chelating agents
Ion exchangers
 Stabilizing agents
 (for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

IT Transition metals, processes
RL: REM (Removal or disposal); PROC (Process)
 (for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

IT Bleaching agents
 Sterilization and Disinfection
 (preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals for)

IT Acrylic polymers, uses
RL: NUU (Other use, unclassified); USES (Uses)
 (quaternized amine group-containing, ion exchangers; for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

IT Quaternary ammonium compounds, uses
RL: NUU (Other use, unclassified); USES (Uses)
 (polymer, acrylic; for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

IT 7439-89-6, Iron, processes 7439-96-5, Manganese, processes 7440-02-0, Nickel, processes 7440-47-3, Chromium, processes 7440-50-8, Copper, processes 7440-66-6, Zinc, processes
RL: REM (Removal or disposal); PROC (Process)
 (for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

IT 9084-78-0, Amberlite ira 458
RL: MOA (Modifier or additive use); USES (Uses)
 /ion-exchangers; for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

IT 9050-96-8, Amberlite IR 124 54077-23-5, Amberlite 200c
RL: TEM (Technical or engineered material use); USES (Uses)
 /ion-exchangers; for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

IT 2279-96-1P, Persuccinic acid 5824-51-1P,
Peradipic acid 28317-46-6P,
Perglutaric acid
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen

peroxide after removal of heavy metals)

IT 110-15-6P, Succinic acid, preparation 110-94-1P, Glutaric acid
 124-04-9P, Adipic acid, preparation
 RL: PUR (Purification or recovery); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen

peroxide after removal of heavy metals)

IT 7722-84-1, Hydrogen peroxide, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen

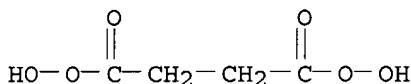
peroxide after removal of heavy metals)

IT 2809-21-4, 1-Hydroxyethylidene-1,1-diphosphonic acid
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (stabilizers; for preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen peroxide after removal of heavy metals)

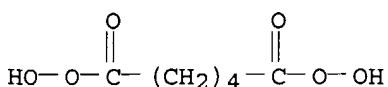
IT 2279-96-1P, Persuccinic acid 5824-51-1P,
 Peradic acid 28317-46-6P,
Perglutaric acid
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of aqueous solns. of mixed perdicarboxylic acids by using hydrogen

peroxide after removal of heavy metals)

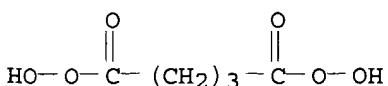
RN 2279-96-1 HCPLUS
 CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



RN 5824-51-1 HCPLUS
 CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)

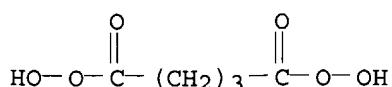


RN 28317-46-6 HCPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 17 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:345683 HCPLUS
 DN 125:110127
 ED Entered STN: 14 Jun 1996
 TI Efficacy of peroxide-containing solutions against microorganisms in biofilms
 AU Goroncy-Bermes, Peter; Gerresheim, Sandra
 CS Biol. Lab., Schuelke und Mayr G.m.b.H., Norderstedt, D-22840, Germany

SO Zentralblatt fuer Hygiene und Umweltmedizin (1996), 198(5),
 473-7
 CODEN: ZHUMEO; ISSN: 0934-8859
 PB Fischer
 DT Journal
 LA German
 CC 10-5 (Microbial, Algal, and Fungal Biochemistry)
 Section cross-reference(s): 63
 AB The bactericidal efficacy of a 1% H₂O₂ solution was not sufficient against Achromobacter xylosoxidans, Flavobacterium meningosepticum, Klebsiella pneumoniae, Pseudomonas aeruginosa, P. cepacia, P. fluorescens, and P. putida after 1 h of contact time to solve the hygiene problem in hospitals. A 1% solution (10% **perglutaric acid**, 28% H₂O₂, < 0.5% perbenzoic acid) was highly and uniformly effective. A 3% solution (10% tertiary butylhydroperoxide, 20% phenoxypropanols, 48% dipropylene glycol) achieved a reduction in bacterial count of more than 5 log steps against all species after 3 h of contact time, unlike the 1% H₂O₂ solution. Before cleaning piping systems, the effectiveness test of the **disinfectant** solution with the isolates is suggested.
 ST hydrogen peroxide aq **disinfectant** biofilm microorganism
 IT Bacteria
 Bactericides, Disinfectants, and Antiseptics
 Hospitals
 Hygiene
 (efficacy of peroxide-containing solns. against microorganisms in biofilms)
 IT Pharmaceutical dosage forms
 (films, efficacy of peroxide-containing solns. against microorganisms in biofilms)
 IT 75-91-2, tert.Butylhydroperoxide 93-59-4, Perbenzoic acid 7722-84-1,
 Hydrogen peroxide, biological studies 25265-71-8, Dipropylene glycol
28317-46-6, Perglutaric acid
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (efficacy of peroxide-containing solns. against microorganisms in biofilms)
 IT **28317-46-6, Perglutaric acid**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (efficacy of peroxide-containing solns. against microorganisms in biofilms)
 RN 28317-46-6 HCPLUS
 CN Pentanediperoxic acid (9CI) (CA INDEX NAME)



L85 ANSWER 18 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:194718 HCPLUS
 DN 124:231856
 ED Entered STN: 05 Apr 1996
 TI Preparation of alkanedicarboxylic monoester peracids as microbicides and **disinfectants**
 IN Carr, Graham; James, Alun Pryce
 PA Solvay Interrox Ltd., UK
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07C409-24

ICS C07C407-00; A01N037-16

CC 23-17 (Aliphatic Compounds)
Section cross-reference(s): 45

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9534537	A1	19951221	WO 1995-GB1398	19950615 <--
	W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT			
	RW:	KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9526794	A1	19960105	AU 1995-26794	19950615 <--
	AU 693563	B2	19980702		
	EP 765309	A1	19970402	EP 1995-921921	19950615 <--
	EP 765309	B1	19990407		
	R:	DE, ES, FR, GB, IT, NL, SE			
	JP 10501805	T2	19980217	JP 1995-501809	19950615 <--
	ES 2132676	T3	19990816	ES 1995-921921	19950615 <--
	US 6207108	B1	20010327	US 1997-750535	19970228 <--
PRAI	GB 1994-12051	A	19940616 <--		
	WO 1995-GB1398	W	19950615 <--		
OS	MARPAT 124:231856				
AB	Storage stable , aqueous acidic solns. having a pH range of 1-5 comprising at least one ester peracid RO ₂ C(CH ₂) _x CO ₃ H (R = C ₁₋₄ alkyl; x = 1-4), useful as domestic and industrial disinfectants with reduced odor compared with C ₁₋₃ aliphatic peracids, are prepared by contacting an aqueous solution of a carboxylic acid RO ₂ C(CH ₂) _x CO ₂ H (R, x = same as above) with an inorg. peroxygen compound, preferably hydrogen peroxide, at a pH of less than 4 until at least some ester peracid is produced, and thereafter adjusting the pH to be in the range of from 1 to 5, if necessary. Thus, an aqueous solution (pH 1.5-2) comprising 10 weight% monomethyl glutarate and				
20					
	weight% H ₂ O ₂ was prepared by dissolving monomethyl glutarate in H ₂ O and adding the required amount of 85 weight% H ₂ O ₂ over a period of 10 min, the stored at ambient temperature for 21 days, and analyzed by HPLC at intervals during storage. The anal. of the sample solution showed that monomethyl glutarate, glutaric acid, perglutaric acid , and monomethyl perglutaric acid content of 18.5, 1.1, trace, and 0.36 weight%, resp. after 1 day and 12.56, 2.77, 1.73, and 2.92 weight%, resp.,				
	after				
	21 days. This solution comprising 20 weight% H ₂ O ₂ was particularly advantageous compared to the 10, 15, 25, and 30 weight% solns. In another example, a solution (solution A) of monomethyl glutarate plus stabilizer was by dissolving 5.39 g monomethyl glutarate and 0.189 g hydroxyethylideneephosphonic acid (DEQUEST 2010) (stabilizer) in 27.59 g demineralized water and adding to this solution 5.99 g 85 weight% H ₂ O ₂ over a period of 10 min with gentle stirring. The solution was stored for .apprx.2 wk and found to have no discernible odor. Also prepared were a solution of monomethyl persuccinate and that of a mixture of monomethyl ester peracids of adipic, glutaric, and succinic acids. These peracids were screened for activity against <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus aureus</i> , and <i>Saccharomyces cerevisiae</i> and yeast <i>Saccharomyces cerevisiae</i> and showed a disinfection performance broadly comparable to that of peracetic acid.				
ST	alkanedicarboxylic monoester peracid prepn microbicide disinfectant ; aliph dicarboxylic monoester peracid prepn microbicide				
IT	Bactericides, Disinfectants, and Antiseptics (preparation of alkanedicarboxylic monoester peracids as microbicides and				

disinfectants)

- IT Carboxylic acids, preparation
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation);
 USES (Uses)
 (di-, aliphatic, preparation of alkanedicarboxylic monoester peracids as microbicides and **disinfectants**)
- IT Carboxylic acids, preparation
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation);
 USES (Uses)
 (peroxy, preparation of alkanedicarboxylic monoester peracids as microbicides and **disinfectants**)
- IT 55656-52-5P, Monomethyl persuccinate 62103-20-2P, Monomethyl peradipate
 65566-30-5P, Monomethyl perglutarate
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation);
 USES (Uses)
 (preparation of alkanedicarboxylic monoester peracids as microbicides and **disinfectants**)
- IT 627-91-8, Monomethyl adipate 1501-27-5, Monomethyl glutarate
 3878-55-5, Monomethyl succinate 7722-84-1, Hydrogen peroxide, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of alkanedicarboxylic monoester peracids as microbicides and **disinfectants**)
- IT 2809-21-4
 RL: MOA (Modifier or additive use); USES (Uses)
 (**stabilizer**; preparation of alkanedicarboxylic monoester peracids as microbicides and **disinfectants**)

L85 ANSWER 19 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1995:822989 HCPLUS

DN 123:202988

ED Entered STN: 30 Sep 1995

TI Use of peroxy acid or precursor in process for wet cleaning of textiles

IN Lemaire, Petrus Joseph

PA Stichting Instituut Voor Reinigingstechnieken TNO, Neth.

SO PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C11D011-00

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9504128	A1	19950209	WO 1994-NL177	19940729 <--
W: AU, BR, CA, FI, JP, NO, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
NL 9301339	A	19950216	NL 1993-1339	19930730 <--
AU 9476251	A1	19950228	AU 1994-76251	19940729 <--
EP 711337	A1	19960515	EP 1994-926403	19940729 <--
R: BE, DE, FR, GB, NL				

PRAI NL 1993-1339	19930730 <--
WO 1994-NL177	19940729 <--

OS MARPAT 123:202988

AB Textiles are cleaned (especially in industrial laundering using a washing tube) by using soaking, ≥ 1 sudsing, rinsing, bleaching, and neutralization steps and including in a second sudsing step or in the rinsing step a peroxy acid having ≥ 6 C atoms (e.g.,
--

diperoxydodecanedioic acid) or a compound converted in situ into such a peroxy acid. The process gives good washing and **disinfecting** efficiency and minimizes water and energy use.

ST bleaching peroxy acid industrial laundering; **disinfecting** peroxy acid industrial laundering; diperoxydodecanedioic acid bleaching industrial laundering

IT **Laundering**
(industrial; peroxy acids for bleaching and **disinfecting** textiles in)

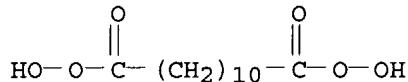
IT **Bactericides, Disinfectants, and Antiseptics**
Bleaching agents
(peroxy acids; for bleaching and **disinfecting** textiles in industrial laundering)

IT **66280-55-5**, Diperoxydodecanedioic acid
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(for bleaching and **disinfecting** textiles in industrial laundering)

IT **66280-55-5**, Diperoxydodecanedioic acid
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(for bleaching and **disinfecting** textiles in industrial laundering)

RN 66280-55-5 HCAPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 20 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1995:277095 HCAPLUS
 DN 122:34037
 ED Entered STN: 07 Jan 1995
 TI Lavatory cleansing blocks containing active oxygen and acid
 IN Scialla, Stefano
 PA USA
 SO Eur. Pat. Appl., 8 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C11D017-00
 ICS C11D003-39; C11D003-20
 CC 46-6 (Surface Active Agents and Detergents)

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 619366	A1	19941012	EP 1993-200961	19930405 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	WO 9423002	A1	19941013	WO 1994-US3163	19940323 <--
	W: AU, CA, CZ, JP, PL, RU, US				
	CA 2159821	AA	19941013	CA 1994-2159821	19940323 <--
	AU 9464146	A1	19941024	AU 1994-64146	19940323 <--
	JP 08508769	T2	19960917	JP 1994-522178	19940323 <--
PRAI	EP 1993-200961		19930405 <--		
	WO 1994-US3163		19940323 <--		
AB	The title blocks contain H ₂ O ₂ or a source of H ₂ O ₂ , an acid, and a surfactant and are suitable for in-rim and in-cistern use, giving good cleaning and disinfecting and removing scale, odors, and stains.				
	A block contained Na dodecylbenzenesulfonate 55, lauryl ether sulfate 2,				

Na persulfate 13, Na₂SO₄ 10, citric acid 15, perfume 4, and colorant-water 1%.

ST lavatory block cleaning acid peroxide; hydrogen peroxide lavatory cleaning block; toilet cleaning block acid peroxide; citric acid peroxide lavatory block; scale inhibitor lavatory cleansing block

IT Toilets
(cleansing blocks containing acids and peroxides for)

IT Peroxides, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(lavatory cleansing blocks containing acids and)

IT **Bactericides, Disinfectants, and Antiseptics**

Detergents
(lavatory cleansing blocks containing acids and peroxides)

IT Scale inhibitors
(lavatory cleansing blocks containing acids and peroxides as)

IT Incrustations
(lavatory cleansing blocks containing acids and peroxides for prevention of)

IT Carboxylic acids, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(lavatory cleansing blocks containing peroxides and)

IT Bleaching agents
(peroxides; lavatory cleansing blocks containing acids and)

IT Toilets
(urinals, cleansing blocks containing acids and peroxides for)

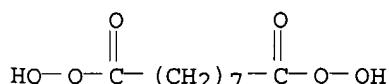
IT 80-43-3, Dicumyl peroxide 93-59-4, Perbenzoic acid 94-36-0, Dibenzoyl peroxide, uses 105-74-8, Dilauroyl peroxide 1941-79-3,
Diperoxyazelaic acid 2388-12-7, Perlauric acid 4452-58-8, Sodium percarbonate 7722-84-1, Hydrogen peroxide, uses 7775-27-1, Sodium persulfate 15593-29-0, Sodium persulfate 28831-12-1, Sodium persulfate 66280-55-5, Diperoxydodecanedioic acid 78948-87-5
RL: TEM (Technical or engineered material use); USES (Uses)
(lavatory cleansing blocks containing acids and)

IT 77-92-9, Citric acid, uses 87-69-4, Tartaric acid, uses 110-15-6, Succinic acid, uses 110-16-7, Maleic acid, uses 144-62-7, Oxalic acid, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(lavatory cleansing blocks containing peroxides and)

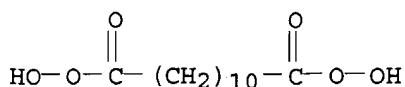
IT 1941-79-3, **Diperoxyazelaic acid**
66280-55-5, Diperoxydodecanedioic acid
RL: TEM (Technical or engineered material use); USES (Uses)
(lavatory cleansing blocks containing acids and)

RN 1941-79-3 HCPLUS

CN Nonanenediperoxoic acid (9CI) (CA INDEX NAME)



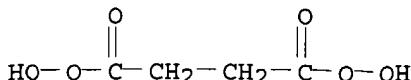
RN 66280-55-5 HCPLUS
CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



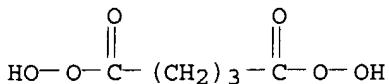
AN 1994:654356 HCPLUS
 DN 121:254356
 ED Entered STN: 26 Nov 1994
 TI Inhibition of microbial growth in food-industry aqueous streams.
 IN Lokkesmoe, Keith D.; Olson, Keith E.
 PA Ecolab Inc., USA
 SO PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N037-16
 ICS C02F001-72
 CC 17-4 (Food and Feed Chemistry)
 Section cross-reference(s): 5

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9421122	A1	19940929	WO 1993-US7952	19930824 <--
	W: AU, BR, CA, JP, KR, NZ RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5409713	A	19950425	US 1993-32624	19930317 <--
	CA 2156299	AA	19940929	CA 1993-2156299	19930824 <--
	AU 9350888	A1	19941011	AU 1993-50888	19930824 <--
	AU 675975	B2	19970227		
	CN 1092385	A	19940921	CN 1993-120580	19931201 <--
PRAI	US 1993-32624	A	19930317 <--		
	WO 1993-US7952	W	19930824 <--		
AB	Microbial growth is inhibited in food-industry aqueous steams with percarboxylic acids, such as peracetic acid, and, optionally, H ₂ O ₂ . The aqueous streams are used i.a. in the transport of fruits or vegetables for processing.				
ST	food industry aq stream microbicide percarboxylate				
IT	Bactericides, Disinfectants, and Antiseptics				
	Food				
	Fungicides and Fungistats (inhibition of microbial growth in food-industry aqueous streams)				
IT	Carboxylic acids, biological studies				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)				
	(peroxy, inhibition of microbial growth in food-industry aqueous streams)				
IT	79-21-0, Peracetic acid. 2279-96-1, Persuccinic acid.				
	7722-84-1, Hydrogen peroxide, biological studies 14156-10-6, Perdecanoic acid. 28317-46-6, Perglutaric acid .				
	33734-57-5, Peroctanoic acid.				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)				
	(inhibition of microbial growth in food-industry aqueous streams)				
IT	2279-96-1, Persuccinic acid. 28317-46-6, Perglutaric acid .				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)				
	(inhibition of microbial growth in food-industry aqueous streams)				
RN	2279-96-1 HCPLUS				
CN	Butanediperoxoic acid (9CI) (CA INDEX NAME)				



RN 28317-46-6 HCAPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 22 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:633512 HCAPLUS
 DN 121:233512
 ED Entered STN: 12 Nov 1994
 TI Preparation of particles containing water-insoluble organic peroxy acid for use in laundry detergents
 IN Chapman, Benjamin Edgar; Gabriel, Steven Matthew; Boucher, Jeffrey Edward; Strauss, Daniel Lewis
 PA The Procter and Gamble Co., USA
 SO Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C11D003-39
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 592033	A1	19940413	EP 1993-202780	19930928 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE			CA 1993-2107450	19930930 <--
	CA 2107450	AA	19940408	JP 1993-276069	19931007 <--
	JP 06212194	A2	19940802	US 1993-157494	19931123 <--
	US 5536435	A	19960716		
PRAI	US 1992-957578		19921007		<--
OS	MARPAT 121:233512				
AB	A substantially water-insol. peroxy acid such as Me(CH ₂) ₈ NHCO(CH ₂) ₄ C(O)OOH is mixed with a peroxy acid-stable, water-soluble surfactant such as an alkylbenzenesulfonate and with a crystalline peroxy acid-compatible material (e.g., Na ₂ SO ₄), and the mixture is formed into particles which show good solubility/dispersibility in water and are useful in laundry detergents.				
ST	bleach peroxy carboxylic acid dispersibility solv; peroxy adipic acid nonylamide bleach dispersibility; laundry detergent bleach peroxy carboxylic; alkylbenzenesulfonate peroxy acid bleach dispersibility; sulfate peroxy acid bleach dispersibility; dispersant peroxy acid bleach laundering				
IT	Dispersing agents (granules containing water-insol. peroxy carboxylic acid bleach and, for detergents)				
IT	Surfactants (granules containing water-insol. peroxy carboxylic acid bleach and, water-dispersible)				
IT	Granulation (of water-insol. peroxy carboxylic acid bleach, for detergents)				
IT	Bleaching agents (peroxy carboxylic acids, water-insol., water-dispersible granules containing)				
IT	Detergents (laundry, peroxy carboxylic acid bleach for, water-insol., granules containing)				
IT	Carboxylic acids, uses RL: USES (Uses)				

(peroxy, bleaching agents, water-insol., water-dispersible granules containing)

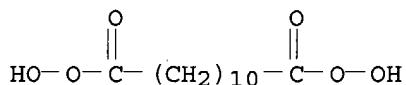
IT 66280-55-5, Diperoxydodecanedioic acid 104788-63-8,
 6-Nonylamino-6-oxoperroxycaproic acid 111875-82-2, 4-Nonylamino-4-
 oxoperoxybutyric acid 116710-02-2 131651-53-1 131651-54-2
 131651-55-3 131651-56-4 158382-96-8
 RL: USES (Uses)
 (bleaching agents, water-insol., water-dispersible granules containing)

IT 127-09-3, Sodium acetate 556-63-8, Lithium formate
 7601-54-9, Sodium phosphate 7632-04-4, Sodium perborate
 7757-82-6, Sodium sulfate, uses 7779-88-6,
 Zinc nitrate 10377-48-7, Lithium sulfate 15475-67-9, Sodium phosphite
 RL: USES (Uses)
 (granules containing water-insol. peroxy acid bleach and,
 water-dispersible)

IT 66280-55-5, Diperoxydodecanedioic acid
 RL: USES (Uses)
 (bleaching agents, water-insol., water-dispersible granules containing)

RN 66280-55-5 HCPLUS

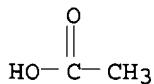
CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



IT 127-09-3, Sodium acetate 7601-54-9, Sodium phosphate
 7632-04-4, Sodium perborate 7757-82-6, Sodium
 sulfate, uses
 RL: USES (Uses)
 (granules containing water-insol. peroxy acid bleach and,
 water-dispersible)

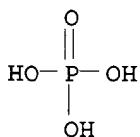
RN 127-09-3 HCPLUS

CN Acetic acid, sodium salt (7CI, 8CI, 9CI) (CA INDEX NAME)



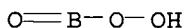
● Na

RN 7601-54-9 HCPLUS
 CN Phosphoric acid, trisodium salt (8CI, 9CI) (CA INDEX NAME)



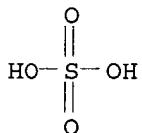
●3 Na

RN 7632-04-4 HCPLUS
 CN Perboric acid (HBO(O₂)), sodium salt (9CI) (CA INDEX NAME)



● Na

RN 7757-82-6 HCAPLUS
 CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L85 ANSWER 23 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:292139 HCAPLUS
 DN 120:292139
 ED Entered STN: 11 Jun 1994
 TI Peracids-containing microbicidal compositions.
 IN Wright, Christopher Thomas; Davies, Sandra Joyce
 PA Solvay Interrox Ltd., UK
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N037-16
 ICI A01N037-16, A01N059-00, A01N037-02
 CC 5-2 (Agrochemical Bioregulators)
 Section cross-reference(s): 17, 63

FAN.CNT 1

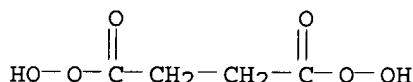
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9406294	A1	19940331	WO 1993-GB1823	19930826 <--
	W: AU, BR, CA, FI, JP, US			RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE	
	EP 660666	A1	19950705	EP 1994-910253	19930826 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE			AU 680831	B2 19970814 AU 1993-49709 19930826 <--
	AU 9349709	A1	19940412	BR 9307056	A 19990629 BR 1993-7056 19930826 <--
	BR 9307056	A	19990629	FI 9501197	A 19950315 FI 1995-1197 19950315 <--
PRAI	GB 1992-19465	A	19920915 <--		
	WO 1993-GB1823	W	19930826 <--		

AB Microbicidal compns. comprise aliphatic peracids, the corresponding aliphatic acid, H₂O₂ and, optionally, other aliphatic acid(s). The mol. ratio of aliphatic

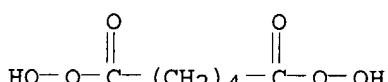
acid to peracid is >5:1. The compns. have improved activity as virucides, superior **stability** when diluted with hard water, improved residual activity, and superior **disinfection** performance for vegetables.

Preferably, the peracid is peracetic acid and the optional aliphatic acid is acetic or propionic acid. A composition containing peracetic acid 4, acetic acid

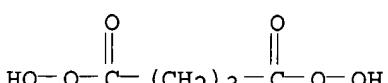
ST 47, and H₂O₂ 2% weight/weight was used for lettuce disinfection...
 IT aliph acid peracid microbicide
 IT Vegetable
 (disinfectants for, peracids-containing compns. as)
 IT **Bactericides, Disinfectants, and Antiseptics**
 Fungicides and Fungistats
 Virucides and Virustats
 (peracids-containing compns.)
 IT Carboxylic acids, uses
 RL: USES (Uses)
 (aliphatic, microboidal compns. containing)
 IT Carboxylic acids, uses
 RL: USES (Uses)
 (peroxy, microboidal compns. containing)
 IT 64-19-7, Acetic acid, uses 79-09-4, Propionic acid, uses 79-21-0,
 Peracetic acid 2279-96-1, Persuccinic acid 4212-43-5,
 Perpropionic acid 5824-51-1, **Peradipic acid**
 7722-84-1, Hydrogen peroxide, uses 13122-71-9, Perbutyric acid
 28317-46-6, **Perglutaric acid**
 RL: USES (Uses)
 (microboidal compns. containing)
 IT 2279-96-1, Persuccinic acid 5824-51-1, **Peradipic**
 acid 28317-46-6, **Perglutaric acid**
 RL: USES (Uses)
 (microboidal compns. containing)
 RN 2279-96-1 HCPLUS
 CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



RN 5824-51-1 HCPLUS
 CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)



RN 28317-46-6 HCPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 24 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:14963 HCPLUS
 DN 120:14963
 ED Entered STN: 08 Jan 1994
 TI **Disinfectant compositions containing peroxy and organic acids**
 IN Benjamins, Peter; De Boer, Robbert
 PA Unilever N. V., Neth.; Unilever PLC
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent

LA English

IC ICM A01N037-16

ICI A01N037-16, A01N037-02, A01N037-04, A01N025-04

CC 63-8 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 569066	A1	19931110	EP 1993-200974	19930402 <--
	EP 569066	B1	19951025		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	ES 2079940	T3	19960116	ES 1993-200974	19930402 <--
	CA 2093888	AA	19931017	CA 1993-2093888	19930413 <--
	AU 9336842	A1	19931021	AU 1993-36842	19930413 <--
	AU 667085	B2	19960307		
	BR 9301552	A	19931019	BR 1993-1552	19930415 <--
	ZA 9302689	A	19941016	ZA 1993-2689	19930416 <--
PRAI	EP 1992-201093		19920416	<--	

OS MARPAT 120:14963

AB A concentrated **disinfectant** compns., pH=2-6, comprises (a) a solid and substantially water-insol. organic peroxy acid 0.1-50, and (b) a water-soluble organic acid 0.1-50%. The **disinfectants** are suitable for **disinfecting** objects and surfaces at locations where microbial contamination is of major concern, such as in hospitals and the food and drinks industry. A **disinfectant** compns. contained water 60.50, dobanoic acid-103 7.00, Marlipal 3.33, citric acid (I) 5.5, 27% 1,12-diperoxydodecane dioic acid 18.52, and minor ingredients 0.05 parts. The logarithmic decimal reduction of the composition was 1.14 as compared to

0.03

for the controls containing no I.

ST **disinfectant** peroxy acid org acid; citric acid peroxydodecane dioic acid **disinfectant**

IT Sequestering agents

(disinfectant compns. containing peroxy acids and organic acids and)

IT **Bactericides, Disinfectants, and Antiseptics**

(peroxy acids and organic acids in)

IT Amines, biological studies

RL: BIOL (Biological study)

(polycarboxy derivative, **disinfectant** compns. containing peroxy acids and organic acids and)

IT Carboxylic acids, biological studies

RL: BIOL (Biological study)

(di-, C8-13, **disinfectant** compns. containing organic acids and)

IT Acids, biological studies

RL: USES (Uses)

(organic, peroxy, **disinfectant** compns. containing organic acids and)

IT Carboxylic acids, biological studies

RL: BIOL (Biological study)

(peroxy, **disinfectant** compns. containing organic acids and)

IT Amines, biological studies

RL: BIOL (Biological study)

(poly-, polycarboxy derivative, **disinfectant** compns. containing peroxy acids and organic acids and)

IT 66280-55-5, Dodecanediperoxoic acid

RL: USES (Uses)

(disinfectant compns. containing organic acids and)

IT 64-19-7, Acetic acid, biological studies 77-92-9, Citric acid, biological studies 79-09-4, Propionic acid, biological studies

110-15-6, Succinic acid, biological studies

RL: BIOL (Biological study)

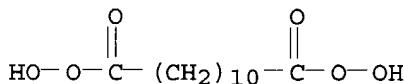
(disinfectant compns. containing peroxy acids and)

IT 139-13-9 7664-38-2, Phosphoric acid, biological studies

RL: USES (Uses)

(disinfectant compns. containing peroxy acids and organic acids and)

IT 66280-55-5, Dodecanediperoxoic acid
 RL: USES (Uses)
 (disinfectant compns. containing organic acids and)
 RN 66280-55-5 HCPLUS
 CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 25 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1993:175895 HCPLUS
 DN 118:175895
 ED Entered STN: 01 May 1993
 TI Peroxy acid-containing synergistic antimicrobial composition
 IN Oakes, Thomas R.; Stanley, Patricia M.; Keller, Jerome D.
 PA ECOLAB Inc., USA
 SO PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N037-16
 ICI A01N037-16
 CC 63-8 (Pharmaceuticals)
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9301716	A1	19930204	WO 1992-US4519	19920529 <--
	W: AU, BR, CA, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	US 5200189	A	19930406	US 1991-734580	19910723 <--
	ZA 9202751	A	19921230	ZA 1992-2751	19920415 <--
	CA 2108177	AA	19930124	CA 1992-2108177	19920529 <--
	CN 1068705	A	19930210	CN 1992-103834	19920529 <--
	CN 1050734	B	20000329		
	AU 9221769	A1	19930223	AU 1992-21769	19920529 <--
	AU 652274	B2	19940818		
	EP 597877	A1	19940525	EP 1992-913905	19920529 <--
	EP 597877	B1	19971217		
	EP 597877	B2	20020828		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
	JP 06510526	T2	19941124	JP 1992-502771	19920529 <--
	JP 2874041	B2	19990324		
	AT 161142	E	19980115	AT 1992-913905	19920529 <--
	ES 2112908	T3	19980416	ES 1992-913905	19920529 <--
	US 5314687	A	19940524	US 1992-932612	19920820 <--
	US 5718910	A	19980217	US 1993-4075	19930113 <--
	NO 9304217	A	19931122	NO 1993-4217	19931122 <--
	FI 9400231	A	19940317	FI 1994-231	19940117 <--
PRAI	US 1991-734580	A	19910723 <--		
	WO 1992-US4519	A	19920529 <--		

AB Mixts. of C1-4 peroxy carboxylic acids with C6-18 aliphatic peroxy acids are synergistic microbicides. Concs. comprising the above components, diluted with water, give solns. (pH 2-8) usable as disinfectants in hospitals, food service, etc. A concentrate comprised peracetic acid 50, HAcO 22, percaprylic acid 3.75, percapric acid 1.25, NAS 8D (n-octanesulfonate hydrotrope coupler) 10, and water 13% by weight. The peracetic acid was a 10.42% solution containing 34% HAcO and 10% H2O2. The concentrate diluted to 1000 ppm and adjusted to pH 3.5, controlled Staphylococcus aureus and Escherichia

coli, in vitro.

ST microbicide synergism peroxycarboxylate peroxy acid; **disinfectant**
synergistic food service hospital

IT Hospitals
Textiles
(**disinfectants** for, synergistic, peroxycarboxylic acid- and
peroxy acid-containing)

IT Food
(processing of, **disinfectants** for, synergistic,
peroxycarboxylic acid- and peroxy acid-containing compns.)

IT Carboxylic acids, biological studies
RL: BIOL (Biological study)
(aliphatic, peroxy, C6-18, microboidal compns. containing)

IT Carboxylic acids, biological studies
RL: BIOL (Biological study)
(peroxy, C1-4, microboidal compns. containing)

IT **Bactericides, Disinfectants, and Antiseptics**
Fungicides and Fungistats
(**synergistic**, peroxycarboxylic acid mixts. with peroxy fatty
acids)

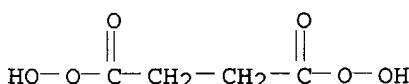
IT 147018-68-6 147018-69-7 147018-70-0 147018-71-1 147018-72-2
147018-73-3
RL: USES (Uses)
(microbicide, synergistic)

IT 79-21-0D, Peroxyacetic acid, mixts. with peroxy fatty acids
2279-96-1D, Peroxysuccinic acid, mixts. with peroxy fatty acids
4212-43-5D, Peroxypropionic acid, mixts. with peroxy fatty acids
5796-85-0D, **Decanediperoxoic acid**, mixts. with
C1-4 peroxycarboxylic acids 5824-51-1D, **Diperoxyadipic**
acid, mixts. with C1-4 peroxycarboxylic acids 14156-10-6D,
Peroxydecanoic acid, mixts. with C1-4 peroxycarboxylic acids
21860-08-2D, Peroxyglycolic acid, mixts. with peroxy fatty acids
33734-57-5D, Peroxyoctanoic acid, mixts. with C1-4 peroxycarboxylic acids
77155-29-4D, mixts. with C1-4 peroxycarboxylic acids 93691-93-1D, mixts.
with C1-4 peroxycarboxylic acids
RL: USES (Uses)
(microbicides, synergistic)

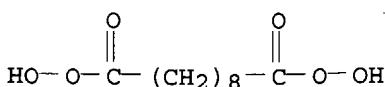
IT 2279-96-1D, Peroxysuccinic acid, mixts. with peroxy fatty acids
5796-85-0D, **Decanediperoxoic acid**, mixts. with
C1-4 peroxycarboxylic acids 5824-51-1D, **Diperoxyadipic**
acid, mixts. with C1-4 peroxycarboxylic acids
RL: USES (Uses)
(microbicides, synergistic)

RN 2279-96-1 HCPLUS

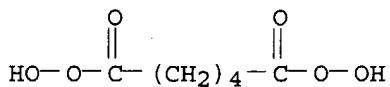
CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



RN 5796-85-0 HCPLUS
CN Decanediperoxoic acid (9CI) (CA INDEX NAME)



RN 5824-51-1 HCPLUS
CN Hexanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 26 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:221658 HCAPLUS

DN 116:221658

ED Entered STN: 31 May 1992

TI Aqueous **disinfectant** compositions containing peroxy acids and sequestering agents as activity enhancers

IN Ploumen, Jan Joseph Hubert; Borgmann-Strahsen, Renate

PA AKZO N. V., Neth.

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A01N037-16

ICI A01N037-16, A01N037-44, A01N025-04

CC 63-8 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 461700	A1	19911218	EP 1991-201348	19910604 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 06316505	A2	19941115	JP 1991-166224	19910612 <--
PRAI	EP 1990-201510		19900612 <--		
AB	An aqueous disinfectant composition comprising a solid substantially water-insol. organic peroxy acid and an effective amount of a sequestering agent has enhanced effectiveness against <i>Pseudomonas aeruginosa</i> and various bacteria. The disinfectants are intended to be used for disinfecting objects and surfaces in domestic, industrial, and medical uses. A disinfectant liquid comprising 1,12-diperoxy dodecanedioic acid 176, nitrilotriacetic acid 200 ppm, Na ₂ B4O ₇ .10H ₂ O 14, K ₂ HPO ₄ 13.3, NaAcO 8.4, a linear alkylbenzene sulfonate 0.5 g/L, pH 5 killed all of the <i>P. aeruginosa</i> in < 1 min in the qual. DGHM suspension test.				
ST	disinfectant peroxy acid sequestering agent; peroxydodecanedioate nitrilotriacetate disinfectant ; <i>Pseudomonas</i> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td>				
IT	Borates RL: BIOL (Biological study) (buffers containing, in disinfectant mixture containing peroxy acids and sequestering agents)				
IT	Phosphates, biological studies RL: BIOL (Biological study) (buffers containing, in disinfecting composition of peroxy acids and sequestering agents)				
IT	<i>Pseudomonas aeruginosa</i> (inhibition of, by peroxy acid and sequestering agent combinations)				
IT	Sequestering agents (mixts. with peroxy acids, disinfectant)				
IT	Bactericides, Disinfectants, and Antiseptics (peroxy acids and sequestering agents and surfactants in)				
IT	Sulfonates RL: BIOL (Biological study) (alkylarene, with alkali metal , as surfactant for peroxy acid disinfectant)				
IT	Carboxylic acids , biological studies RL: BIOL (Biological study)				

(di-, C8-13, diperoxy, as **disinfectants**, activity enhancement by sequestering agent of)

IT Surfactants
 (ionic, **disinfectant** solns. containing peroxy acids and sequestering agents and)

IT Surfactants
 (nonionic, **disinfectant** solns. containing peroxy acids and sequestering agents and)

IT Carboxylic acids, compounds
 RL: BIOL (Biological study)
 (peroxy, mixts. with sequestering agents, **disinfectant**)

IT Acids, compounds
 RL: BIOL (Biological study)
 (peroxy, mixts., with sequestering agents, **disinfectant**)

IT Amino acids, polymers
 RL: BIOL (Biological study)
 (polymers, as sequestering agent for peroxy acid **disinfectant**)

IT 64-19-7D, Acetic acid, salts
 RL: USES (Uses)
 (buffers containing, in **disinfectant** mixture containing peroxy acids and sequestering agents)

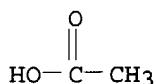
IT 64-19-7D, Acetic acid, salts 127-09-3 1330-43-4, Boron sodium oxide (B4Na2O7) 7664-38-2D, Phosphoric acid, salts 7758-11-4 10043-35-3D, Boric acid, salts
 RL: USES (Uses)
 (buffers containing, in **disinfecting** composition of peroxy acids and sequestering agents)

IT 60-00-4D, EDTA, mixture with peroxy acids 139-13-9D, Nitrilotriacetic acid, mixture with peroxy acids 66280-55-5D, Dodecanediperoxoic acid, mixture with sequestering agents 141178-64-5 141178-65-6
 RL: USES (Uses)
 (**disinfectant**)

IT 127-09-3
 RL: USES (Uses)
 (buffers containing, in **disinfecting** composition of peroxy acids and sequestering agents)

RN 127-09-3 HCPLUS

CN Acetic acid, sodium salt (7CI, 8CI, 9CI) (CA INDEX NAME)

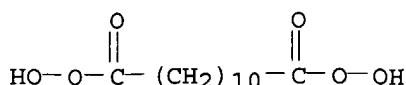


● Na

IT 66280-55-5D, Dodecanediperoxoic acid, mixture with sequestering agents
 RL: USES (Uses)
 (**disinfectant**)

RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 27 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:526991 HCAPLUS

DN 115:126991

ED Entered STN: 05 Oct 1991

TI Noncontaminating antimicrobial composition

IN Schmidt, William

PA Ecolab, Inc., USA

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A01N059-00

ICI A01N059-00, A01N037-36

CC 1-5 (Pharmacology)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 423922	A1	19910424	EP 1990-307191	19900702 <--
	EP 423922	B1	19961211		
	R: AT, BE, DE, DK, FR, GB, IT, SE				
	AU 9057830	A1	19910426	AU 1990-57830	19900626 <--
	AU 623022	B2	19920430		
	GB 2236951	A1	19910424	GB 1990-14264	19900627 <--
	FI 97855	B	19961129	FI 1990-3231	19900627 <--
	FI 97855	C	19970310		
	AT 146036	E	19961215	AT 1990-307191	19900702 <--
	CA 2021631	AA	19910418	CA 1990-2021631	19900719 <--
	CA 2021631	C	19970930		
	US 5139788	A	19920818	US 1990-569237	19900817 <--
PRAI	US 1989-422778		19891017	<--	

AB An antimicrobial surface sanitizing composition comprises a major portion of diluent and an active antimicrobial agent (e.g. 0.1-3% H₂O₂ and 0.25-3% C₃-6 α-OH substituted mono- or di-carboxylic acid (e.g. lactic acid). The composition leaves a noncontaminating residue upon the surface after contact with the intended surface (e.g. a mammalian teat dip).

ST lactic acid hydrogen peroxide antimicrobial; hydroxycarboxylic acid hydrogen peroxide antimicrobial; carboxylate hydroxy hydrogen peroxide antimicrobial

IT Alcohols, biological studies

RL: BIOL (Biological study)
(carboxy, microbicides containing hydrogen peroxide and)

IT Carboxylic acids, biological studies

RL: BIOL (Biological study)
(di-, α-hydroxy substituted mono- or, microbicides containing hydrogen peroxide and)

IT Carboxylic acids, biological studies

RL: BIOL (Biological study)
(hydroxy, microbicides containing hydrogen peroxide and)

IT Bactericides, Disinfectants, and Antiseptics

Fungicides and Fungistats
(medical, lactic acid- and hydrogen peroxide-containing, noncontaminating residue)

IT 50-21-5, Lactic acid, biological studies

RL: BIOL (Biological study)
(noncontaminating residue antimicrobial mixture containing hydrogen peroxide and)

IT 7722-84-1, Hydrogen peroxide, biological studies

RL: BIOL (Biological study)
(noncontaminating residue antimicrobial mixture containing lactic acid and)

L85 ANSWER 28 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:474596 HCAPLUS

DN 115:74596
 ED Entered STN: 23 Aug 1991
 TI Manufacture of peroxoniobic acid sols
 IN Terada, Yasuhiko; Uno, Hajime; Abe, Kazunobu; Shirasaki, Shinichi
 PA Sakai Chemical Industry Co., Ltd., Sakai, Japan; National Institute for
 Research in Inorganic Materials
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW

DT Patent

LA English

IC ICM C01B015-00

CC 49-2 (Industrial Inorganic Chemicals)

Section cross-reference(s): 57

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 428388	A1	19910522	EP 1990-312386	19901113 <--
	EP 428388	B1	19950426		
	R: DE, FR, GB				
	JP 03153527	A2	19910701	JP 1989-294184	19891113 <--
	JP 08000701	B4	19960110		
	US 5102649	A	19920407	US 1990-611265	19901113 <--
PRAI	JP 1989-294184		19891113 <--		

AB A strong acid, H₂O₂, and water are added to ≥1 Nb compds. selected from Nb hydroxide, Nb₂O₅, and NbCl₅, to form an aqueous peroxoniobic acid solution, which is maintained at 5-50° to give the title sols. The **colloidal** peroxoniobic acid is suitable for use in the manufacture of Nb-containing ceramics and as a source of dispersed Nb. Thus, 1 mol concentrated

HCl was added to a dispersion of 0.2 mol Nb hydroxide in 300 mL water, then 0.8 mol H₂O₂ was gradually added under stirring. Addnl. water was added to convert the Nb hydroxide to a peroxoniobic complex, and the mixture was held at 45° for 48 h to give the soluble After addition of 6N NH₄OH to pH 1.5, the sol (particle size 0.02 μm) was subjected to ultrafiltration using polysulfone membranes to remove Cl ions.

ST niobium hydroxide peroxoniobic acid sol; hydrochloric acid niobium hydroxide; hydrogen peroxide hydrochloric acid; ultrafiltration **colloidal** peroxoniobic acid

IT **Carboxylic acids**, uses and miscellaneous

RL: USES (Uses)

(di-, stabilizers, in **colloidal**
peroxoniobic acid)

IT Filtration

(ultra-, purification by, of **colloidal** peroxoniobic acid)

IT 1309-42-8P, Magnesium hydroxide

RL: PREP (Preparation)

(**colloidal**, manufacture of, in magnesium niobium oxide ceramics manufacture)

IT 7647-01-0, Hydrochloric acid, reactions 7697-37-2, Nitric acid, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(concentrated, reaction of, with niobium compds., in presence of hydrogen peroxide, for **colloidal** peroxoniobic acid)

IT 10377-60-3, Magnesium nitrate

RL: PROC (Process)

(ion exchange of, for **colloidal** magnesium hydroxide in magnesium niobium oxide ceramics manufacture)

IT 39421-71-1, Duolite A-101D

RL: USES (Uses)

(ion exchange with, of magnesium nitrate, for **colloidal** magnesium hydroxide in magnesium niobium oxide ceramics manufacture)

IT 37349-30-7P, Niobium hydroxide oxide

RL: PREP (Preparation)

(manufacture of **colloidal**, from niobium compds., by addition of strong acids and hydrogen peroxide and aging)

IT 12163-26-7P, Magnesium niobium oxide (MgNb206)
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (manufacture of, from **colloidal** magnesium hydroxide and peroxyoniobic acid solns.)

IT 12057-57-7P, Lead magnesium niobium oxide (PbMg0.33Nb0.67O3)
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (manufacture of, from lead oxide and magnesium niobium oxide, **colloidal** peroxyoniobic acid solution manufacture for)

IT 1313-96-8, Niobium oxide 10026-12-7, Niobium pentachloride 12710-38-2, Niobium hydroxide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactions of, with strong acids and hydrogen peroxide, for **colloidal** peroxyoniobic acid)

IT 1335-25-7, Lead oxide
 RL: USES (Uses)
 (sintering of mixts. containing magnesium niobium oxide and, for lead magnesium niobium oxide, **colloidal** peroxyoniobic acid solution manufacture for)

IT 110-15-6, Succinic acid, uses and miscellaneous 141-82-2, Malonic acid, uses and miscellaneous 144-62-7, Oxalic acid, uses and miscellaneous
 RL: USES (Uses)
 (**stabilizer**, in **colloidal** peroxyoniobic acid)

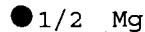
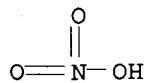
IT 1309-42-8P, Magnesium hydroxide
 RL: PREP (Preparation)
 (**colloidal**, manufacture of, in magnesium niobium oxide ceramics manufacture)

RN 1309-42-8 HCPLUS
 CN Magnesium hydroxide (Mg(OH)2) (9CI) (CA INDEX NAME)



IT 10377-60-3, Magnesium nitrate
 RL: PROC (Process)
 (ion exchange of, for **colloidal** magnesium hydroxide in magnesium niobium oxide ceramics manufacture)

RN 10377-60-3 HCPLUS
 CN Nitric acid, magnesium salt (8CI, 9CI) (CA INDEX NAME)



L85 ANSWER 29 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:188024 HCPLUS
 DN 114:188024
 ED Entered STN: 17 May 1991
 TI Built or unbuilt aqueous detergent compositions for heavy duty fabric washing
 IN Leng, Francis John; Machin, David; Reed, David Alan; Jones, David Alan Kenneth
 PA Hindustan Lever Ltd., India
 SO Indian, 34 pp.

CODEN: INXXAP

DT Patent

LA English

IC ICM C11D001-02

ICS C11D003-04; C11D003-39

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 166047	A	19900303	IN 1986-BO223	19860813 <--
PRAI	GB 1985-20550		19850816		<--

OS MARPAT 114:188024

AB The title compns., comprising **stable** gels which are mainly or all in the liquid **crystal** form, contain 15-70% surfactant system, 1-45% additive, 20-55% water, and 0.001-10% enzyme, fluorescent whitener, bleach, photobleach, antiredeposition agent, perfume, and/or germicide. The surfactant system has a Krafft point below ambient temperature, does not spontaneously form the hexagonal phase, and comprises 30-100% surfactant having >1 aliphatic or araliph. hydrocarbon chain containing >8 C and having an anionic group position non-terminally in a hydrocarbon chain or carring >1 hydrocarbon chain and 0-70% other anionic or nonionic surfactant. The additive is a water-soluble anionic or nonionic material (e.g., urea) which has little or no micelle forming capability and is capable of forcing the surfactant system into the hexagonal phase. A composition contained Na alkylbenzenesulfonate 40, urea 20, boric acid 1, **Na₂SO₄** 1, fluorescent whitener 0.1, and water 37.9%.

ST laundry detergent gel liq **crystal**; urea detergent gel liq **crystal**; fluorescent whitener detergent gel; bleach detergent gel; enzyme detergent gel; photobleach detergent gel; antiredeposition agent detergent gel; perfume detergent gel; germicide detergent gel; hexagonal liq **crystal** detergent gel

IT Bleaching agents

Fluorescent brighteners

(laundry detergent gels containing, in liquid **crystal** form)IT Soilproofing
(agents, laundry detergent gels containing, in liquid **crystal** form)IT Liquid **crystals**
(hexagonal, laundry detergent gels in form of, manufacture of)IT Detergents
(laundry, liquid, manufacture of heavy duty, in liquid **crystal** form)

IT 9004-32-4, CM-cellulose sodium salt

RL: USES (Uses)
(antiredeposition agents, detergent gels containing, in liquid **crystal** form)

IT 66280-55-5, Diperoxydodecanedioic acid

RL: USES (Uses)
(bleaching agents, detergent gels containing, in liquid **crystal** form)

IT 27344-41-8, Tinopal CBS X

RL: USES (Uses)
(fluorescent whiteners, detergent gels containing, in liquid **crystal** form)

IT 57-13-6, Urea, uses and miscellaneous 9014-01-1, Subtilisin

RL: USES (Uses)
(laundry detergent gels containing, in liquid **crystal** form)

IT 47822-79-7D, sulfonated

RL: USES (Uses)
(photochem. bleach, detergent gels containing, in liquid **crystal** form)

IT 9004-32-4, CM-cellulose sodium salt

RL: USES (Uses)
(antiredeposition agents, detergent gels containing, in liquid **crystal** form)

RN 9004-32-4 HCAPLUS
 CN Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)

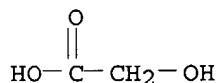
CM 1

CRN 9004-34-6
 CMF Unspecified
 CCI PMS, MAN

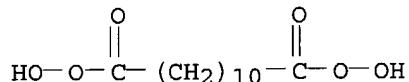
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1
 CMF C2 H4 O3



IT 66280-55-5, Diperoxydodecanedioic acid
 RL: USES (Uses)
 (bleaching agents, detergent gels containing, in liquid **crystal**
 form)
 RN 66280-55-5 HCAPLUS
 CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 30 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:104823 HCAPLUS
 DN 114:104823
 ED Entered STN: 23 Mar 1991
 TI Agglomerated peroxy acid bleach granules and process for making same
 IN Kellner, Charles Edward; Alexander, Steven Robert
 PA Procter and Gamble Co., USA
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C11D003-39
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 396341	A2	19901107	EP 1990-304584	19900426 <--
	EP 396341	A3	19920122		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	CA 2015490	AA	19901101	CA 1990-2015490	19900426 <--
	AU 9054549	A1	19901101	AU 1990-54549	19900430 <--
	AU 643206	B2	19931111		
	CN 1046932	A	19901114	CN 1990-102598	19900501 <--
	JP 03000800	A2	19910107	JP 1990-115716	19900501 <--
	BR 9002050	A	19910813	BR 1990-2050	19900502 <--
PRAI	US 1989-345495		19890501	<--	
OS	MARPAT 114:104823				

AB Dry granules having good uniformity, useful for addition to water in the preparation of bleaching solns. for fabrics, are prepared by continuously mixing

a pumpable slurry containing 26-55% water and an **exotherm** control agent with a dry particulate mixture containing recycled dry bleach fines, **powdered exotherm** control agent, and fillers to form granules having free water content 10-20% and drying the granules at a controlled temperature in a fluidized-bed dryer to give free water content <0.5%. Spraying 0.93 part slurry of diperoxydodecanedioic acid (I) 22.9, water 46, boric acid 25.2, and surfactant paste-additives 5.9% on a dry mixture of 0.35 part **Na₂SO₄** and 2.95% recycled dry I fines and drying the resulting granules in a fluidized-bed dryer with air at ≈65° gave granules (90% having particle size 250-750 μm) containing ≈25% I.

ST peroxy acid bleach granulation; peroxydodecanedioic bleach granulation; diperoxydodecanedioic bleach granulation

IT Granulation

(of peroxy acid bleach, with **exotherm** control agent)

IT Bleaching agents

(peroxy acids, granulation of, with **exotherm** control agent)

IT **66280-55-5**, Diperoxydodecanedioic acid

RL: USES (Uses)

(bleaching agents, granulation of, with **exotherm** control agent)

IT 110-16-7, Maleic acid, uses and miscellaneous 557-39-1, Magnesium formate 814-80-2, Calcium lactate 6915-15-7, Malic acid

7487-88-9, **Magnesium sulfate**, uses and miscellaneous 7757-82-6, **Sodium sulfate**,

uses and miscellaneous 7778-18-9, Calcium sulfate 10024-42-7,

Aluminum **sodium sulfate** 10043-01-3, Aluminum sulfate

10043-35-3, Boric acid, uses and miscellaneous 15007-61-1, Aluminum potassium sulfate 15710-63-1, Aluminum ammonium sulfate 15892-81-6

RL: USES (Uses)

(**exotherm** control agent, in granulation of peroxy acid bleach)

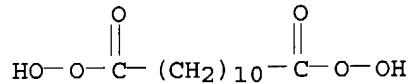
IT **66280-55-5**, Diperoxydodecanedioic acid

RL: USES (Uses)

(bleaching agents, granulation of, with **exotherm** control agent)

RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



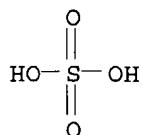
IT **7487-88-9**, **Magnesium sulfate**, uses and miscellaneous 7757-82-6, **Sodium sulfate**, uses and miscellaneous 7778-18-9, Calcium sulfate

RL: USES (Uses)

(**exotherm** control agent, in granulation of peroxy acid bleach)

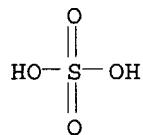
RN 7487-88-9 HCPLUS

CN Sulfuric acid magnesium salt (1:1) (8CI, 9CI) (CA INDEX NAME)



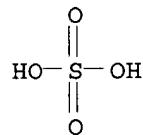
● Mg

RN 7757-82-6 HCPLUS
 CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



● 2 Na

RN 7778-18-9 HCPLUS
 CN Sulfuric acid, calcium salt (1:1) (8CI, 9CI) (CA INDEX NAME)

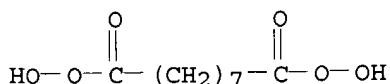


● Ca

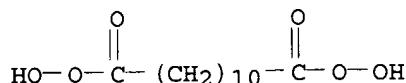
L85 ANSWER 31 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:8592 HCPLUS
 DN 114:8592
 ED Entered STN: 12 Jan 1991
 TI Simplified preparation of bleaching granules from peroxy acid and
 hydratable inorganic material
 IN Ploumen, Jan Joseph Hubert; Edelijn, Herman Johannes; Reijnen, Jan
 Josephus Maria
 PA AKZO N. V., Neth.
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C11D003-395
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 376360	A1	19900704	EP 1989-202929	19891120 <--
	EP 376360	B1	19950322		

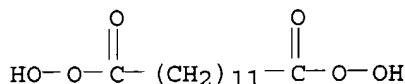
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AT 120231 E 19950415 AT 1989-202929 19891120 <--
 ES 2069575 T3 19950516 ES 1989-202929 19891120 <--
 CA 2003807 AA 19900525 CA 1989-2003807 19891124 <--
 NO 8904689 A 19900528 NO 1989-4689 19891124 <--
 NO 174062 B 19931129
 NO 174062 C 19940309
 BR 8905960 A 19900619 BR 1989-5960 19891127 <--
 JP 02238099 A2 19900920 JP 1989-304967 19891127 <--
 PRAI EP 1988-202691 19881125 <--
 AB Free-flowing granules are prepared by mixing ≥1 water-insol. peroxy acid bleach (e.g., diperoxydodecanedioic acid) and a hydratable inorg. material (e.g., Na₂SO₄) at a water content below the maximum hydration water content of the inorg. material and below the hydration temperature of the inorg. material until a **powder** forms, increasing the temperature to at least the hydration temperature of the inorg. material, forming the **powder** into granules, and, optionally, drying the granules. The granules have a mole water content and are mech. and chemical **stable**, dust-free, soluble in water, and useful in laundering.
 ST peroxy acid bleach granulation; **sodium sulfate**
 granulation bleach; laundry bleach peracid granulation
 IT Granulation
 (of peroxy acid bleach, with hydratable inorg. compds.)
 IT Bleaching agents
 (peroxy acids, granulation of, with hydratable inorg. compds.)
 IT Carboxylic acids, uses and miscellaneous
 RL: USES (Uses)
 (peroxy, bleaching agents, granulation of, with hydratable inorg. compds.)
 IT 1941-79-3, **Nonanediperoxoic acid**
 66280-55-5, Diperoxydodecanedioic acid 68575-79-1,
 Diperoxytridecanedioic acid 104788-63-8 104788-71-8 104788-72-9
 111875-82-2 128275-31-0
 RL: USES (Uses)
 (bleaching agents, granulation of, with hydratable inorg. compds.)
 IT 7757-82-6, **Sodium sulfate**, uses and
 miscellaneous
 RL: USES (Uses)
 (granulation of peroxy acid bleach with hydratable)
 IT 1941-79-3, **Nonanediperoxoic acid**
 66280-55-5, Diperoxydodecanedioic acid 68575-79-1,
 Diperoxytridecanedioic acid
 RL: USES (Uses)
 (bleaching agents, granulation of, with hydratable inorg. compds.)
 RN 1941-79-3 HCAPLUS
 CN Nonanediperoxoic acid (9CI) (CA INDEX NAME)



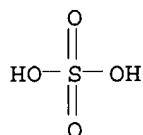
RN 66280-55-5 HCAPLUS
 CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



RN 68575-79-1 HCPLUS
 CN Tridecanedperoxyic acid (9CI) (CA INDEX NAME)



IT 7757-82-6, Sodium sulfate, uses and
 miscellaneous
 RL: USES (Uses)
 (granulation of peroxy acid bleach with hydratable)
 RN 7757-82-6 HCPLUS
 CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L85 ANSWER 32 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:426014 HCPLUS
 DN 113:26014
 ED Entered STN: 21 Jul 1990
 TI Wax-encapsulated detergent actives and emulsion process for their production
 IN Hurckes, Lisa C.; Kamel, Ahmed Abdel Moneim; Morelli, Monica A.
 PA Unilever PLC, UK; Unilever N. V.
 SO Eur. Pat. Appl., 22 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C11D017-00
 ICS C11D003-39; C11D003-395; B01J013-02
 CC 46-6 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 346034	A2	19891213	EP 1989-305628	19890605 <--
	EP 346034	A3	19901017		
	EP 346034	B1	19940406		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	US 4919841	A	19900424	US 1988-202853	19880606 <--
	AU 8936005	A1	19891207	AU 1989-36005	19890601 <--
	AU 623143	B2	19920507		
	BR 8902601	A	19900123	BR 1989-2601	19890605 <--
	ES 2051358	T3	19940616	ES 1989-305628	19890605 <--
	JP 02035935	A2	19900206	JP 1989-143927	19890606 <--
	ZA 8904273	A	19910227	ZA 1989-4273	19890606 <--
PRAI	US 1988-202853		19880606 <--		
AB	A particulate detergent-active material, such as a bleaching agent or nonionic surfactant, is dispersed in a molten wax, and the dispersion is emulsified in an aqueous surfactant solution and cooled to give an encapsulated material which is protected with interaction with other components of				

ST detergent compns., e.g., thickened automatic dishwashing liqs. Blends of hard and soft waxes are especially useful for encapsulation.

IT wax encapsulation detergent component; bleach encapsulation wax

stability; nonionic surfactant encapsulation wax; dishwasher detergent component encapsulation; cleaner component encapsulation wax

IT Detergents
(encapsulation of components of, by wax, for **stability**)

IT Bleaching agents
(encapsulation of, by wax, for **stability** in detergents)

IT Encapsulation
(of detergent components, by wax, for **stability**)

IT Alcohols, compounds
RL: PROC (Process)
(C12-15, ethoxylated propoxylated, encapsulation of, by wax, for **stability** in detergents)

IT Alcohols, compounds
RL: PROC (Process)
(C13-14-secondary, ethoxylated propoxylated, encapsulation of, by wax, for **stability** in detergents)

IT Detergents
(dishwashing, liquid, encapsulation of components of, by wax, for **stability**)

IT Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous
RL: USES (Uses)
(microcryst., encapsulation by, of detergent actives, for **stability**)

IT 10543-57-4, N,N,N',N'-Tetraacetylenediamine 91125-43-8
RL: USES (Uses)
(bleach activators, wax-encapsulated, **stable**)

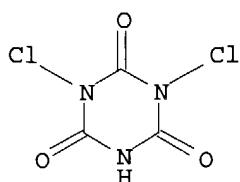
IT 118-52-5, 1,3-Dichloro-5,5-dimethylhydantoin 2244-21-5, Potassium dichloroisocyanurate 2893-78-9, ACL 60 10332-33-9, Sodium perborate monohydrate 37244-98-7 66280-55-5,
Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, encapsulation of, by wax, for **stability**)

IT 110-27-0, Isopropylmyristate 9002-88-4, Polyethylene 117925-29-8,
Epolene C16
RL: USES (Uses)
(wax, encapsulation by, of detergent actives, for **stability**)

IT 2893-78-9, ACL 60 66280-55-5, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, encapsulation of, by wax, for **stability**)

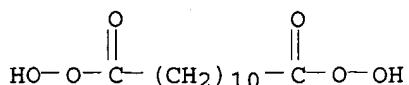
RN 2893-78-9 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt (9CI)
(CA INDEX NAME)



● Na

RN 66280-55-5 HCAPLUS
CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 33 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:425992 HCAPLUS
 DN 113:25992
 ED Entered STN: 21 Jul 1990
 TI Preparation of desensitized water-insoluble diperoxy dicarboxylic acid-containing bleaching agents
 IN Zimmermann, Frank; Jostmann, Thomas; Schueller, Hans Peter; Engel, Klaus
 PA Huels A.-G., Germany
 SO Ger. Offen., 14 pp.
 CODEN: GWXXBX

DT Patent

LA German

IC ICM C07C407-00

ICS C07C409-00; D06L003-02; C11D003-39

CC 46-5 (Surface Active Agents and Detergents)
 Section cross-reference(s): 23

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3822798	A1	19900111	DE 1988-3822798	19880706 <--
	EP 375829	A2	19900704	EP 1989-108288	19890509 <--
	EP 375829	A3	19901024		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
	US 5030381	A	19910709	US 1989-360401	19890602 <--
	JP 02255899	A2	19901016	JP 1989-173168	19890706 <--
PRAI	DE 1988-3822798		19880706 <--		
AB	The title agents, useful in detergents, comprise granulated mixts. of Na ₂ SO ₄ and a diperoxy dicarboxylic acid, such as diperoxydodecanedioic acid or diperoxybrassylic acid, which have good chemical stability in spite of a high impurity (e.g., heavy metal and Cl) content, good handling properties, low bulk d., and high abrasion resistance. The agents are prepared by filtering the freshly prepared products of the peroxidn. of a water-insol. dicarboxylic acid by H ₂ O ₂ in the presence of H ₂ SO ₄ to give a filtrate containing H ₂ SO ₄ and a liquid suspension containing the diperoxy dicarboxylic acid and <10% H ₂ SO ₄ , neutralizing the filtrate and removing water to give powder Na ₂ SO ₄ , neutralizing the liquid suspension and adding a water-soluble organic polymer to remove heavy metals and Cl ⁻ , and mixing the resulting diperoxy dicarboxylic acid with the powdered Na ₂ SO ₄ to form granules.				
ST	peroxy dicarboxylic bleach desensitization; dicarboxylic diperoxy bleach desensitization; safety diperoxy dicarboxylic bleach; sodium sulfate diperoxide desensitization; sulfate diperoxy dicarboxylic desensitization; granulation diperoxy dicarboxylic desensitization; diperoxydodecanedioic acid prepn desensitization; diperoxybrassylic acid prepn desensitization				

IT Detergents

(bleaching agents for, granulated diperoxy dicarboxylic acids as, manufacture of)

IT Bleaching agents

(diperoxy dicarboxylic acid, manufacture of granulated, desensitization in)

IT Explosion

(prevention of, of diperoxy dicarboxylic acids, in manufacture of granules)

IT 7757-82-6, Sodium sulfate, uses and

miscellaneous

RL: USES (Uses)

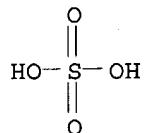
(diperoxy dicarboxylic acid granules containing, for desensitization,
manufacture of)

IT 66280-55-5P, Diperoxydodecanedioic acid 68575-79-1P,
Tridecanediperoxoic acid
RL: PREP (Preparation)
(manufacture of granulated, as bleaching agent, desensitization in)

IT 7757-82-6, Sodium sulfate, uses and
miscellaneous
RL: USES (Uses)
(diperoxy dicarboxylic acid granules containing, for desensitization,
manufacture of)

RN 7757-82-6 HCPLUS

CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)

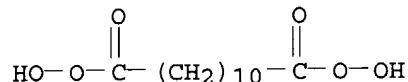


●2 Na

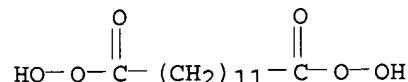
IT 66280-55-5P, Diperoxydodecanedioic acid 68575-79-1P,
Tridecanediperoxoic acid
RL: PREP (Preparation)
(manufacture of granulated, as bleaching agent, desensitization in)

RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



RN 68575-79-1 HCPLUS
CN Tridecanediperoxoic acid (9CI) (CA INDEX NAME)

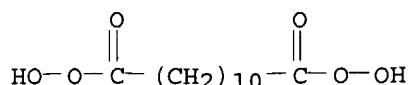


L85 ANSWER 34 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
AN 1990:80009 HCPLUS
DN 112:80009
ED Entered STN: 03 Mar 1990
TI Preparation of granules containing peroxy acid for use in bleach and
detergent compositions
IN Finch, Timothy David; Iley, William John
PA Unilever N. V., Neth.; Unilever PLC
SO Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C11D011-00
ICS C11D003-39; C11D003-36

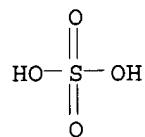
CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 340847	A2	19891108	EP 1989-201076	19890426 <--
	EP 340847	A3	19901003		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AU 8933931	A1	19891109	AU 1989-33931	19890502 <--
	AU 613745	B2	19910808		
	JP 02011564	A2	19900116	JP 1989-113614	19890502 <--
	JP 06023186	B4	19940330		
	BR 8902095	A	19891205	BR 1989-2095	19890504 <--
	ZA 8903330	A	19910130	ZA 1989-3330	19890505 <--
PRAI	GB 1988-10630		19880505 <--		
AB	A water-wet mixture of a solid peroxy acid and a hydratable material (especially				
	Na ₂ SO ₄) having temperature of hydration ≤40° is prepared at a temperature above the hydration temperature with the incorporation of a film-forming				
	material (especially a carboxy-containing polymer) to give a mixture having pH <7, the				
	mixture is formed into granules before, during, or after cooling to a temperature				
	below the hydration temperature, and the granules are dried. The granules have good homogeneity, storage stability, attrition resistance, and dispersibility and are useful in powdered bleaching or detergent compns. A suspension containing diperoxydodecanedioic acid (I) 28,				
	Na ₂ SO ₄ 7, and water 65% was mixed at 40° with 0.25 part Na ₂ SO ₄ /part I, mixed at 40° with sufficient poly(acrylic acid) (II; mol. weight 30,000) to give a 5% concentration in the final granules, and				
	cooled to 10° in a mixer to give granules which were dried in a fluidizing apparatus and screened to recover granules having diameter 150-2000 µm. The granules contained I 19, Na ₂ SO ₄ 76, and II 5% and had bulk d. 600 kg/m ³ .				
ST	peroxy acid bleach granulation; sodium sulfate granulation peroxy acid; polyacrylic acid granulation bleach; carboxy polymer granulation bleach; diperoxydodecanedioic acid granulation				
IT	Granulation (of peroxy acid bleach, with hydratable and film-forming materials)				
IT	Detergents (peroxy acid bleach-containing granules for addition to, manufacture of)				
IT	Bleaching agents (peroxy acids, granulation of, with hydratable and film-forming materials)				
IT	66280-55-5, Diperoxydodecanedioic acid RL: USES (Uses) (bleaching agents, granulation of, with hydratable and film-forming materials)				
IT	7757-82-6, Sodium sulfate, uses and miscellaneous 9003-01-4, Poly(acrylic acid) RL: USES (Uses) (in granulation of peroxy acid bleach, for detergents)				
IT	66280-55-5, Diperoxydodecanedioic acid RL: USES (Uses) (bleaching agents, granulation of, with hydratable and film-forming materials)				
RN	66280-55-5 HCPLUS				
CN	Dodecanediperoxoic acid (9CI) (CA INDEX NAME)				



IT 7757-82-6, Sodium sulfate, uses and
miscellaneous
RL: USES (Uses)
(in granulation of peroxy acid bleach, for detergents)
RN 7757-82-6 HCAPLUS
CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L85 ANSWER 35 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1990:38777 HCAPLUS
DN 112:38777
ED Entered STN: 04 Feb 1990
TI Aqueous bleach compositions containing a **stably** suspended
organic peroxy acid
IN Emmons, Stuart Albert; Hale, Perry
PA Unilever N. V., Neth.; Unilever PLC
SO Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C11D003-395
ICS C11D001-83
CC 46-6 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 337516	A2	19891018	EP 1989-200347	19890214 <--
	EP 337516	A3	19900530		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	NO 8900503	A	19890922	NO 1989-503	19890207 <--
	NO 173948	B	19931115		
	NO 173948	C	19940223		
	ZA 8900976	A	19901031	ZA 1989-976	19890208 <--
	AU 8929812	A1	19890921	AU 1989-29812	19890209 <--
	AU 597522	B2	19900531		
	CA 1328715	A1	19940426	CA 1989-590784	19890210 <--
	US 4929377	A	19900529	US 1989-313408	19890221 <--
	BR 8900970	A	19891024	BR 1989-970	19890302 <--
	JP 03020399	A2	19910129	JP 1989-69122	19890320 <--
	JP 05031917	B4	19930513		
PRAI	GB 1988-6704		19880321	<--	

OS MARPAT 112:38777
AB The title compns., useful for cleaning hard surfaces, etc., contain a
particulate organic peroxy acid such as diperoxydodecanedioic acid (I) which
is **stably** suspended by a structuring combination of a secondary

C10-20 alkanesulfonate, and ethoxylated fatty alc., and **Na₂SO₄**.
A composition containing I 10.0, secondary C13-17 alkanesulfonate 5.1,
Synperonic
A3 0.9, **Na₂SO₄** 10.0, ethylenediaminetetrakis(methylenephosphonic
acid 0.04, and water .apprx.74% and having pH 4.5 was pourable and had
good chemical and phys. **stability** during storage.

ST bleach liq suspension **stability**; diperoxydodecanedioic bleach
liq suspension; peroxy acid bleach liq; alkanesulfonate liq bleach
stability; ethoxylate liq bleach **stability**; alc
ethoxylate liq bleach; **sodium sulfate** liq bleach

IT Thickening agents
(alumina, **colloidal**, for aqueous cleaners for hard surfaces)

IT Bleaching agents
(liquid, **stable**, particulate peroxy acid-containing)

IT Bleaching agents
(peroxy acids, aqueous liquid suspensions containing, **stable**)

IT Alcohols, compounds
RL: USES (Uses)
(C13-17, ethoxylated, bleach compns. containing particulate peroxy acid
and, liquid, **stable**)

IT Detergents
(cleaning compns., liquid, **colloidal** alumina-thickened, for
hard surfaces)

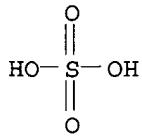
IT 7757-82-6, **Disodium sulfate**, uses and
miscellaneous
RL: USES (Uses)
(bleach compns. containing particulate peroxy acid and, liquid,
stable)

IT 66280-55-5, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching compns. containing, liquid, **stable**)

IT 5989-27-5, D-Limonene
RL: USES (Uses)
(cleaners containing, alumina-thickened, for hard surfaces)

IT 7757-82-6, **Disodium sulfate**, uses and
miscellaneous
RL: USES (Uses)
(bleach compns. containing particulate peroxy acid and, liquid,
stable)

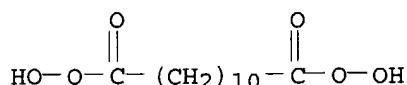
RN 7757-82-6 HCPLUS
CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

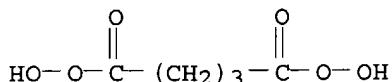
IT 66280-55-5, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching compns. containing, liquid, **stable**)

RN 66280-55-5 HCPLUS
CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 36 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:520802 HCAPLUS
 DN 111:120802
 ED Entered STN: 01 Oct 1989
 TI Problems in the **disinfection** of dental impression materials
 AU Borneff, Marianne; Fuhr, Klaus; Behneke, Nikolaus
 CS Hyg.-Inst., Univ. Heidelberg, Heidelberg, D-6900, Fed. Rep. Ger.
 SO Zentralblatt fuer Bakteriologie, Mikrobiologie und Hygiene, Serie B:
 Umwelthygiene, Krankenhaushygiene, Arbeitshygiene, Praeventive Medizin (1989), 187(4/6), 365-81
 CODEN: ZBMMEA; ISSN: 0932-6073
 DT Journal
 LA German
 CC 63-7 (Pharmaceuticals)
 AB Com. products containing glutaryl- and succinylidialdehydes and peracetic and **perglutaric acids** were tested for their suitability in the bacterial **disinfection** of dental impression materials (alginates and elastomers), both in model studies with *Staphylococcus aureus* and in practical trials, whereby effects on impression material properties were also considered. In general, **disinfection** within the guidelines of the German Society of Hygiene and Microbiol. (DGHM) was possible, although a pronounced influence of product formulation (no data) and impression material was observed. Further impression material roughness was influenced to various extents, depending upon both **disinfectant** and material employed. A general statement of **disinfection** suitability was therefore not possible.
 ST dental impression material **disinfection** com **disinfectant**
 IT Rubber, silicone, biological studies
 Rubber, urethane, biological studies
 Siloxanes and Silicones, biological studies
 RL: PROC (Process)
 (disinfection of)
 IT **Bactericides, Disinfectants, and Antiseptics**
 (for dental impression materials)
 IT **Sterilization and Disinfection**
 (of dental impression materials, with com. **disinfectants**)
 IT Dental materials and appliances
 (impressions, **disinfection** of, with com. **disinfectants**, surface roughness changes in)
 IT Rubber, synthetic
 RL: PROC (Process)
 (polyether, **disinfection** of)
 IT Surface structure
 (roughness, of dental impression materials, **disinfectants** effect on)
 IT 79-21-0, Peracetic acid 111-30-8, Pentanedial 638-37-9, Butanodial 28317-46-6, **Perglutaric acid**
 RL: BIOL (Biological study)
 (dental impression material **disinfection** by)
 IT 109319-34-8, Alginoplast
 RL: PROC (Process)
 (disinfection of)
 IT 28317-46-6, **Perglutaric acid**
 RL: BIOL (Biological study)
 (dental impression material **disinfection** by)

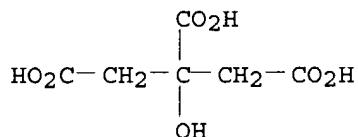
RN 28317-46-6 HCAPLUS
 CN Pentanediperoxic acid (9CI) (CA INDEX NAME)



L85 ANSWER 37 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:517340 HCAPLUS
 DN 111:117340
 ED Entered STN: 01 Oct 1989
 TI Non-phosphorus laundry detergent compositions containing zeolite builder and peroxy acid bleach
 IN Emery, William Derek; Barnes, Stephen George; Sims, Peter Stanford
 PA Unilever N. V., Neth.; Unilever PLC
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C11D003-395
 ICS C11D003-12; C11D003-20
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

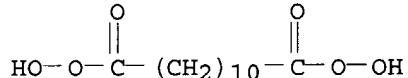
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 313143	A2	19890426	EP 1988-202243	19881007 <--
	EP 313143	A3	19891018		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AU 8824008	A1	19890427	AU 1988-24008	19881019 <--
	AU 607268	B2	19910228		
	NO 8804699	A	19890424	NO 1988-4699	19881021 <--
	JP 01146996	A2	19890608	JP 1988-265911	19881021 <--
	BR 8805449	A	19890627	BR 1988-5449	19881021 <--
PRAI	GB 1987-24899		19871023	<--	
OS	MARPAT 111:117340				
AB	Citric acid or an alkali metal citrate improves the cleaning and bleaching performance of the title compns. A spray-dried powder containing Na alkylbenzenesulfonate 9.0, ethoxylated (7 mol) fatty alc. 1.5, Sokalan CP5 4.0, zeolite A 24.0, Na ₂ SO ₄ 0.3, CM-cellulose 0.5, EDTA Na salt 0.2, Na ₂ CO ₃ 2.0, and water-fluorescent brightener 7.6 parts was mixed with a particulate mixture of Na perborate monohydrate 8.0, antifoaming agent 2.5, Savinase 0.5, diperoxydodecanedioic acid 6.0, and Na ₂ SO ₄ 33.9 parts to give a detergent which was used with 5% tri-Na citrate (I) in the laundering of fabrics stained with tea and red wine, giving better cleaning and bleaching than a composition containing no I.				
ST	citrate peroxy acid bleaching; peroxy acid bleaching laundering; peroxydodecanedioic bleaching laundering; zeolite laundry detergent bleaching; citric acid peroxide bleaching				
IT	Bleaching agents (peroxy acids, in laundry detergents, activators for)				
IT	Zeolites, uses and miscellaneous RL: TEM (Technical or engineered material use); USES (Uses) (A, detergents containing, for laundering, activators for peroxy acid bleach in)				
IT	Detergents (laundry, zeolite-built, activators for peroxy acid bleach in)				
IT	68-04-2, Trisodium citrate 77-92-9, Citric acid, uses and miscellaneous RL: CAT (Catalyst use); USES (Uses) (activators, for peroxy acid bleach in laundry detergents)				

IT 66280-55-5, Diperoxydodecanedioic acid
 RL: USES (Uses)
 (bleaching agents, in laundry detergents, activators for)
 IT 1335-30-4
 RL: USES (Uses)
 (zeolites, A, detergents containing, for laundering, activators for peroxy
 acid bleach in)
 IT 68-04-2, Trisodium citrate
 RL: CAT (Catalyst use); USES (Uses)
 (activators, for peroxy acid bleach in laundry detergents)
 RN 68-04-2 HCPLUS
 CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt (9CI) (CA
 INDEX NAME)



● 3 Na

IT 66280-55-5, Diperoxydodecanedioic acid
 RL: USES (Uses)
 (bleaching agents, in laundry detergents, activators for)
 RN 66280-55-5 HCPLUS
 CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)

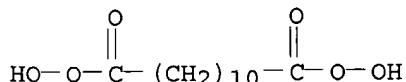


L85 ANSWER 38 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:499427 HCPLUS
 DN 111:99427
 ED Entered STN: 16 Sep 1989
 TI Phosphate-free aluminosilicate-built detergents containing a peroxy acid
 and a polyphosphonate for effective bleaching during laundering
 IN Emery, William Derek; Barnes, Stephen George; Sims, Peter Stanford
 PA Unilever N. V., Neth.; Unilever PLC
 SO Eur. Pat. Appl., 8 pp.
 CODEN: EPXXDW

DT Patent
 LA English
 IC ICM C11D003-395
 ICS C11D003-12; C11D003-36
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 313145	A2	19890426	EP 1988-202245	19881007 <--
	EP 313145	A3	19891018		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AU 8824006	A1	19890427	AU 1988-24006	19881019 <--
	NO 8804701	A	19890424	NO 1988-4701	19881021 <--
	JP 01161098	A2	19890623	JP 1988-265913	19881021 <--

BR 8805451 A 19890627 BR 1988-5451 19881021 <--
 PRAI GB 1987-24901 19871023 <--
 OS MARPAT 111:99427
 AB A phosphonate R2N(CH₂CH₂NR)mR (R = CH₂PO₃H₂; m = 0-2), optionally in the form of a water-soluble salt, improves the cleaning and bleaching performance of the title detergents at ≤40°. A spray-dried powder containing Na alkylbenzenesulfonate 9.0, ethoxylated (7 mol) fatty alc. 1.5, Sokalan CP5 4.0, zeolite A 24.0, Na₂SO₄ 0.3, CM-cellulose 0.5, EDTA Na salt 0.2, Na₂CO₃ 2.0, and water-fluorescent brightener 7.6 parts was mixed with a particulate mixture of Na perborate monohydrate 8.0, antifoaming agent 2.5, Savinase 0.5, diperoxydodecanedioic acid 6.0, and Na₂SO₄ 33.9 parts to give a detergent which was used with 1% tri-Ca complex of [CH₂N(CH₂PO₃H₂)₂]₂ (I) in the laundering of fabrics containing tea, red wine, and protein stains giving better cleaning and bleaching than a composition containing no I.
 ST phosphonate peroxy acid bleaching; peroxy acid bleaching laundering; amine phosphonomethyl bleaching peroxy acid; zeolite laundry detergent bleaching; peroxydodecanedioic bleaching laundry detergent
 IT Bleaching agents
 (peroxy acids, in laundry detergents containing zeolites, activators for)
 IT Zeolites, uses and miscellaneous
 RL: TEM (Technical or engineered material use); USES (Uses)
 (A, laundry detergents containing, peroxy acid bleach in, activators for)
 IT Detergents
 (laundry, peroxy acid bleach in zeolite-containing, activators for)
 IT 66280-55-5, Diperoxydodecanedioic acid
 RL: USES (Uses)
 (bleaching by, in laundering, phosphonates for improved)
 IT 1429-50-1D, Ethylene diamine tetrakis(methylene phosphonic acid), tricalcium complex
 RL: USES (Uses)
 (peroxy acid bleach activator, in laundry detergents containing zeolites)
 IT 1335-30-4
 RL: USES (Uses)
 (zeolites, A, laundry detergents containing, peroxy acid bleach in, activators for)
 IT 66280-55-5, Diperoxydodecanedioic acid
 RL: USES (Uses)
 (bleaching by, in laundering, phosphonates for improved)
 RN 66280-55-5 HCPLUS
 CN Dodecanediperoxic acid (9CI) (CA INDEX NAME)



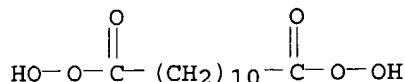
L85 ANSWER 39 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:175549 HCPLUS
 DN 110:175549
 ED Entered STN: 12 May 1989
 TI Cleaning of food-stained linen with acids, bleaching agents, alkali builders, and detergents
 IN Tsutazumi, Junichi; Obara, Masataka; Iguchi, Kazuo
 PA Kao Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM D06L001-16
 ICS C11D007-34; C11D017-00; D06L003-02

CC 46-6 (Surface Active Agents and Detergents)

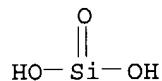
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63190076	A2	19880805	JP 1987-21968	19870202 <--
PRAI	JP 1987-21968		19870202 <--		
AB	Food-stained table cloths and napkins are cleaned by washing (1) with acidic solns. (pH = 1.5-4), then with aqueous solns. containing bleaching agents, alkali builders (A), and detergents (B), or (2) with acidic solns. (pH = 1.5-4) containing organic per acids, then with aqueous solns. containing A and				
B. A	food-stained table cloth was washed with a solution (pH 2.1) containing 0.2% p-toluenesulfonic acid and 0.1% Mg monoperphthalate at 60° for 10 min, then with a solution containing 0.1% Lunace P 200 (containing nonionic surfactant, soap, and Na tripolyphosphate) and 0.1% Na metasilicate at 60° for 10 min. The cleaning method afforded better cleaning than a conventional method.				
ST	food stained linen cleaning acid; alkali builder cleaning food stained linen; bleaching agent cleaning food stained linen				
IT	Acids, uses and miscellaneous RL: USES (Uses) (cleaning of food-stained linen with alkali builders and bleaching agents and detergents and)				
IT	Food (linen stained by, cleaning of, with acids and bleaching agents and alkali builders and detergents)				
IT	Cleaning (of food-stained linen)				
IT	Bleaching agents (organic per acids, cleaning of food-stained linen with acids and alkali builders and detergents and)				
IT	Detergents (cleaning compns., containing acid and alkali builder and bleaching agent, for food-stained linen)				
IT	Textiles (linen, food-stained, cleaning of, with acids and bleaching agents and alkali builders and detergents)				
IT	Carboxylic acids, uses and miscellaneous RL: USES (Uses) (peroxy, cleaning of food-stained linen with acids and alkali builders and detergents and)				
IT	66280-55-5, Dodecanediperoxoic acid 78948-87-5 RL: USES (Uses) (cleaning of food-stained linen with acids and alkali builders and detergents and)				
IT	120112-96-1, Lunace P 200 RL: USES (Uses) (cleaning of food-stained linen with acids and bleaching agents and alkali builders and)				
IT	6834-92-0, Sodium metasilicate RL: USES (Uses) (cleaning of food-stained linen with acids and bleaching agents and detergents)				
IT	77-92-9, uses and miscellaneous 104-15-4, p-Toluenesulfonic acid, uses and miscellaneous 7647-01-0, Hydrochloric acid, uses and miscellaneous RL: USES (Uses) (cleaning of food-stained linen with alkali builders and bleaching agents and detergents and)				
IT	66280-55-5, Dodecanediperoxoic acid RL: USES (Uses) (cleaning of food-stained linen with acids and alkali builders and detergents and)				

RN 66280-55-5 HCAPLUS
 CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



IT 6834-92-0, Sodium metasilicate
 RL: USES (Uses)
 (cleaning of food-stained linen with acids and bleaching agents and detergents)
 RN 6834-92-0 HCAPLUS
 CN Silicic acid (H_2SiO_3), disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L85 ANSWER 40 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:59965 HCAPLUS
 DN 110:59965
 ED Entered STN: 17 Feb 1989
 TI Stable aqueous peroxycarboxylic acid bleach suspension and its preparation and use
 IN Dankowski, Manfred; Lieser, Thomas; Prescher, Guenter; Leonhardt, Wolfgang
 PA Degussa A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 7 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM D06L003-02
 ICS C11D003-395; C11D003-48
 ICA C07C179-10
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3709347	A1	19881006	DE 1987-3709347	19870321 <--
	FI 8800199	A	19880922	FI 1988-199	19880118 <--
	EP 283791	A2	19880928	EP 1988-103336	19880304 <--
	EP 283791	A3	19890607		
	EP 283791	B1	19910508		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AT 63332	E	19910515	AT 1988-103336	19880304 <--
	US 4790949	A	19881213	US 1988-168996	19880316 <--
	DK 8801455	A	19880922	DK 1988-1455	19880317 <--
	JP 63249770	A2	19881017	JP 1988-65963	19880322 <--
PRAI	DE 1987-3709347		19870321 <--		
	EP 1988-103336		19880304 <--		

AB The title suspensions, having good resistance to phase separation and loss of active O during storage, contain colloidal silica as a thickening agent and a hydratable peroxycarboxylic acid-desensitizing neutral salt and are especially useful in combination with detergents. An aqueous

suspension contained diperoxydodecanedioic acid 25, **Na₂SO₄** 9.3, and Aerosil 200 2.5%.

ST bleach peroxycarboxylic suspension **stability**; diperoxydodecanedioic bleach suspension; dodecanedioic diperoxy bleach suspension; silica **colloidal** thickener bleach; sodium **sulfate** diperoxydodecanedioic suspension

IT Bleaching agents
(peroxycarboxylic acids, aqueous suspensions containing, thickened, **stable**)

IT Thickening agents
(silica, aqueous peroxycarboxylic acid bleach suspensions containing)

IT **66280-55-5**, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, aqueous suspensions containing, thickened, **stable**)

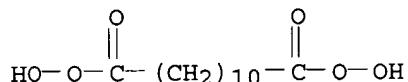
IT 7631-86-9, Silica, uses and miscellaneous
RL: USES (Uses)
(**colloidal**, thickening agents, aqueous peroxycarboxylic acid suspensions containing)

IT 7757-82-6, **Disodium sulfate**, uses and
miscellaneous
RL: USES (Uses)
(peroxycarboxylic acid bleach suspensions containing, thickened, **stable**)

IT **66280-55-5**, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, aqueous suspensions containing, thickened, **stable**)

RN 66280-55-5 HCPLUS

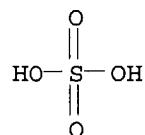
CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



IT 7757-82-6, **Disodium sulfate**, uses and
miscellaneous
RL: USES (Uses)
(peroxycarboxylic acid bleach suspensions containing, thickened, **stable**)

RN 7757-82-6 HCPLUS

CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)

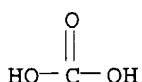


●2 Na

L85 ANSWER 41 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:25789 HCPLUS
 DN 110:25789
 ED Entered STN: 21 Jan 1989
 TI Caking-resistant **powder** detergent compositions with good storage **stability**
 IN Tsutazumi, Junichi; Obara, Masataka; Iguchi, Kazuo

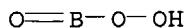
PA Kao Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT **Patent**
 LA Japanese
 IC ICM C11D010-04
 ICI C11D010-04, C11D001-72, C11D003-395, C11D009-02, C11D003-10, C11D003-08
 CC 46-6 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63196698	A2	19880815	JP 1987-27748	19870209 <--
	JP 07005906	B4	19950125		
PRAI	JP 1987-27748		19870209 <--		
AB	The title compns. comprise peroxides (A) 1-20, nonionic surfactants (B) 1-10, higher fatty acid salts (C) 1-10, Na ₂ CO ₃ (I) 25-60, and powd . Na silicate (II) (SiO ₂ /Na ₂ O = 2.5-3.5, mol ratio) 1-10% at (B + C)/(I + II) = 0.08-0.43. Thus, Na perborate 5, polyoxyethylene dodecyl ether 4, I 47, II (SiO ₂ /Na ₂ O = 2.5, mol ratio) 5, beef tallow fatty acid Na salt 4, Na tripolyphosphate 20, Na₂SO₄ 9.4, CMC 1, a fluorescent dye 0.1, and water 4.5% were mixed to give a detergent, which showed 92% retention of effective O after 14-days storage at 40° and 80% relative humidity and cake-breaking load (after 14-day storage at 40° and 80% relative humidity under 2 kg load) 0 g, vs. 68 and 270, resp., for a similar detergent containing II (SiO ₂ /Na ₂ O = 2.0 mol ratio).				
ST	powd detergent caking resistant; storage stable powder detergent compn; sodium silicate powder detergent compn				
IT	Detergents (powdered , sodium silicate-containing, caking-resistant)				
IT	497-19-8 , Sodium carbonate, uses and miscellaneous 1344-09-8, Sodium silicate 7632-04-4 , Sodium perborate 9002-92-0, Polyoxyethylene dodecyl ether 66280-55-5 , Dodecanediperoxoic acid 114915-85-4 RL: USES (Uses) (powder detergents containing, caking-resistant, storage- stable)				
IT	497-19-8 , Sodium carbonate, uses and miscellaneous 7632-04-4 , Sodium perborate 66280-55-5 , Dodecanediperoxoic acid RL: USES (Uses) (powder detergents containing, caking-resistant, storage- stable)				
RN	497-19-8 HCAPLUS				
CN	Carbonic acid disodium salt (8CI, 9CI) (CA INDEX NAME)				



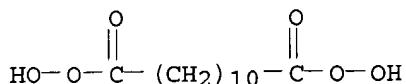
●2 Na

RN 7632-04-4 HCAPLUS
 CN Perboric acid (HBO(O₂)), sodium salt (9CI) (CA INDEX NAME)



● Na

RN 66280-55-5 HCAPLUS
 CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



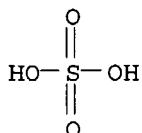
L85 ANSWER 42 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:548890 HCAPLUS
 DN 109:148890
 ED Entered STN: 28 Oct 1988
 TI Procedure for the desensitization of water-insoluble peroxycarboxylic acids
 IN Dankowski, Manfred; Hofen, Willi
 PA Degussa A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 7 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM C07C179-10
 CC 23-16 (Aliphatic Compounds)
 Section cross-reference(s): 40

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3628263	A1	19880303	DE 1986-3628263	19860825 <--
	DE 3628263	C2	19900712		
	FI 8702671	A	19880226	FI 1987-2671	19870616 <--
	EP 257273	A2	19880302	EP 1987-110140	19870714 <--
	EP 257273	A3	19890322		
	EP 257273	B1	19910410		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
	AT 62475	E	19910415	AT 1987-110140	19870714 <--
	BR 8704268	A	19880412	BR 1987-4268	19870819 <--
	JP 63060965	A2	19880317	JP 1987-209431	19870825 <--
	US 4874556	A	19891017	US 1988-266237	19881028 <--
PRAI	DE 1986-3628263		19860825	<--	
	US 1987-63045		19870617	<--	
	EP 1987-110140		19870714	<--	
AB	A procedure for desensitization of H ₂ O-insol. peroxycarboxylic acids with essentially Na ₂ SO ₄ as desensitizing agent, whereby one brings the peroxy-carboxylic acids into contact with the desensitizing agent in the aqueous medium, seps. the desensitized peroxycarboxylic acids in a known manner from the mother liquor and before drying, optionally conditions, and recycles the Na ₂ SO ₄ dissolved in the mother liquor, was characterized in that one withdraws heat from the mother liquor after separation of the desensitized peroxycarboxylic acids for crystallization of Na ₂ SO ₄ .10H ₂ O and optionally also Na ₂ SO ₄ .7H ₂ O, seps. the crystallized Na ₂ SO ₄ hydrates from the impurity-containing waste liquors, and recycles at least a portion of the separated Na ₂ SO ₄ hydrates themselves or after their conversion into an aqueous solution and/or anhydrous Na ₂ SO ₄ into the process. Peroxycarboxylic acids are used				

not only as oxidizing agents in organic synthesis but also used as bleaching agents in washing and cleaning agents, especially for textiles, since they become active <80°. The examples illustrate: 1) the processing of a mother liquor from the preparation and desensitization of diperoxydodecanedioic acid; 2) conversion of the $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ into a saturated solution and anhydrous Na_2SO_4 ; 3) desensitization of diperoxydodecanedioic acid.

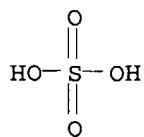
- ST desensitization diperoxydodecanedioic acid **sodium sulfate**; peroxydodecanedioic acid desensitization **sodium sulfate**; dodecanedioic acid peroxy desensitization **sodium sulfate**; recycle **sodium sulfate**
desensitization peroxy acid
- IT Bleaching agents
(peroxycarboxylic acids, for textiles, desensitization of)
- IT Carboxylic acids, uses and miscellaneous
RL: USES (Uses)
(peroxy, desensitization of water insol.)
- IT 7727-73-3, **Sodium sulfate** decahydrate
RL: PROC (Process)
(conversion of, into saturated solution and anhydrous **sodium sulfate**)
- IT 7757-82-6, **Sodium sulfate**, uses and miscellaneous
RL: USES (Uses)
(desensitization by, of diperoxydodecanedioic acid)
- IT 66280-55-5, Diperoxydodecanedioic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(desensitization of, and processing of mother liquor from)
- IT 693-23-2, Dodecanedioic acid
RL: PROC (Process)
(peroxidn. of, and subsequent desensitization)
- IT 7727-73-3, **Sodium sulfate** decahydrate
RL: PROC (Process)
(conversion of, into saturated solution and anhydrous **sodium sulfate**)
- RN 7727-73-3 HCPLUS
- CN Sulfuric acid disodium salt, decahydrate (8CI, 9CI) (CA INDEX NAME)



●2 Na

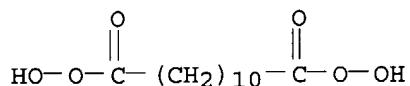
●10 H_2O

- IT 7757-82-6, **Sodium sulfate**, uses and miscellaneous
RL: USES (Uses)
(desensitization by, of diperoxydodecanedioic acid)
- RN 7757-82-6 HCPLUS
- CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

IT 66280-55-5, Diperoxydodecanedioic acid
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (desensitization of, and processing of mother liquor from)
 RN 66280-55-5 HCPLUS
 CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 43 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:531285 HCPLUS
 DN 109:131285
 ED Entered STN: 14 Oct 1988
 TI Processes for encapsulation of peracid granules
 IN Jacobs, Jochen; Carduck, Franz Josef; Smulders, Eduard; Dankowski, Manfred
 PA Henkel K.-G.a.A., Fed. Rep. Ger.
 SO Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM D06L003-02
 ICS B01J002-30; C11D003-39; C11D003-395; C07C179-10
 ICA A01N037-02; A01N025-12
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3636904	A1	19880505	DE 1986-3636904	19861030 <--
	EP 272402	A2	19880629	EP 1987-115498	19871022 <--
	EP 272402	A3	19881228		
	EP 272402	B1	19910313		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AT 61628	E	19910315	AT 1987-115498	19871022 <--
	DK 8705675	A	19880501	DK 1987-5675	19871029 <--
	JP 63122798	A2	19880526	JP 1987-277244	19871030 <--
PRAI	DE 1986-3636904		19861030 <--		
	EP 1987-115498		19871022 <--		
AB	Peracid-containing granules in a fluidizing apparatus are sprayed with an aqueous solution or dispersion or a polymer of an unsatd. C3-6 carboxylic acid and dried to prepare encapsulated granules which do not interact with other components, such as perfumes, upon addition to detergent compns. as bleaching agents. Granules containing α,ω -diperoxydodecanedioic acid 1.9, MgSO ₄ 3.8, Na ₂ SO ₄ 78.8, poly(acrylic acid) (I) 1.0, and water 3.0% were sprayed at 20% aqueous I solution in a fluidizing apparatus and dried to give granules which are coated with 2% I. The granules did not effect the odor of a perfume in a detergent powder during 4 wk, vs 1				

with uncoated granules.

ST carboxylic polymer encapsulation peracid; bleach peracid encapsulation; peroxydodecanedioic acid encapsulation

IT Encapsulation
(of peracids, granules containing, for detergents)

IT Bleaching agents
(peracids, granules containing, encapsulation of)

IT Detergents
(laundry, granules containing encapsulated peracid bleaching agents for)

IT Carboxylic acids, uses and miscellaneous

RL: USES (Uses)
(peroxy, granules containing, bleaching agents, for detergents)

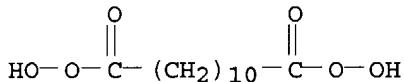
IT **66280-55-5**, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, granules containing, encapsulation of)

IT 9003-01-4, Poly(acrylic acid) 9003-16-1, Fumaric acid polymer
25087-26-7, Poly(methacrylic acid) 26007-90-9, Crotonic acid polymer
26099-09-2, Maleic acid polymer 29132-58-9, Acrylic acid-maleic acid copolymer 35326-33-1, Poly(α -hydroxyacrylic acid)
RL: USES (Uses)
(encapsulation by, of peracid-containing granules)

IT **66280-55-5**, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, granules containing, encapsulation of)

RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



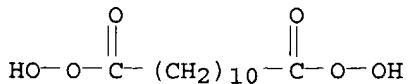
L85 ANSWER 44 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:408448 HCPLUS
 DN 109:8448
 ED Entered STN: 09 Jul 1988
 TI Granulated **stable** peroxy acid bleach composition and its use in laundry detergents
 IN Finch, Timothy David
 PA Unilever N. V., Neth.; Unilever PLC
 SO Eur. Pat. Appl., 8 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C11D003-39
 ICS C11D003-37
 CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 256443	A2	19880224	EP 1987-111425	19870807 <--
	EP 256443	A3	19881214		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AU 8776745	A1	19880218	AU 1987-76745	19870810 <--
	AU 600503	B2	19900816		
	BR 8704199	A	19880412	BR 1987-4199	19870813 <--
	JP 63048400	A2	19880301	JP 1987-203007	19870814 <--
	ZA 8706041	A	19890426	ZA 1987-6041	19870814 <--
PRAI	GB 1986-19953		19860815 <--		
AB	The title bleach composition containing a solid organic peroxy acid 20-65, ≥1				

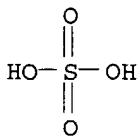
inert inorg. salt 30-79.5, and an oxidation-resistant acidic polymeric binder 0.5-6.5% and having particle size 500-2000 μ has good storage stability and bleaching effectiveness, especially as a bleach component in laundry detergents. Thus, a mixture of 32.6 parts diperoxydodecanedioic acid and 66.78 parts Na₂SO₄ was sprayed with a solution containing 0.62 part poly(acrylic acid) (mol. weight 250,000), dried, and sieved to prepare a granular bleach composition, which was mixed with a powdered laundry detergent. The mixture lost <25% of the active O during 60 days at 30° and 75% relative humidity.

- ST peroxy acid bleach granular stability; polyacrylic acid binder bleach; binder peroxy acid bleach; sodium sulfate
peroxy acid bleach; laundry detergent bleach stability
- IT Binding materials
(acidic polymers, peroxy acid bleach granules containing, for improved stability in laundry detergents)
- IT Polyelectrolytes
(acidic, binders, peroxy acid bleach granules containing)
- IT Granular substances
(peroxy acid bleach containing acidic polymers, for improved stability in laundry detergents)
- IT Bleaching agents
(peroxy acids, granulated, containing acidic polymers, with improved stability in laundry detergents)
- IT Detergents
(laundry, granulated peroxy acid bleach for, with improved stability)
- IT Acids, uses and miscellaneous
RL: USES (Uses)
(peroxy, bleaching agents, granulated, stable, for laundry detergents)
- IT 9003-01-4, Poly(acrylic acid) 9003-01-4D, Poly(acrylic acid), phosphinate derivs.
RL: USES (Uses)
(binders, peroxy acid bleach granules containing, for improved stability)
- IT 66280-55-5, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, granulated, stable, for laundry detergents)
- IT 7757-82-6, Sodium sulfate, uses and miscellaneous
RL: USES (Uses)
(peroxy acid bleach granules containing, stable in laundry detergents)
- IT 66280-55-5, Diperoxydodecanedioic acid
RL: USES (Uses)
(bleaching agents, granulated, stable, for laundry detergents)
- RN 66280-55-5 HCPLUS
- CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



- IT 7757-82-6, Sodium sulfate, uses and miscellaneous
RL: USES (Uses)
(peroxy acid bleach granules containing, stable in laundry detergents)
- RN 7757-82-6 HCPLUS

CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L85 ANSWER 45 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1988:44078 HCPLUS

DN 108:44078

ED Entered STN: 06 Feb 1988

TI **Stabilized** aqueous solution of aromatic percarbonic acid and its use in **disinfection**, oxidation, and bleaching

IN Beilfuss, Wolfgang; Diehl, Karl Heinz

PA Schuelke und Mayr G.m.b.H., Fed. Rep. Ger.

SO Ger. Offen., 6 pp.

CODEN: GWXXBX

DT **Patent**

LA German

IC ICM C07C179-133

ICS D06L003-02; C11D003-395; A01N037-10; A01N037-02; A01N043-40

CC 63-8 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3543500	A1	19870611	DE 1985-3543500	19851210 <--
	DE 3543500	C2	19920220		
PRAI	DE 1985-3543500		19851210 <--		
OS	CASREACT 108:44078				
AB	An aqueous solution of aromatic percarbonic acid is stabilized with (a) at least equal amts. of the corresponding aromatic carbonic acid and (b) an aqueous				
	perglutaric acid solution stabilized with excess H ₂ O ₂ and/or a 10-60% H ₂ O ₂ solution A solution containing benzoic anhydride, glutaric anhydride, pyridine-2,6-dicarboxylic acid and H ₂ O ₂ stored at room temperature for 19 mos. gave better results against <i>Candida albicans</i> than similar solns. not containing benzoic anhydride (or also containing benzoic acid).				
ST	percarboxylic acid soln disinfection stability ; carboxylic acid soln disinfection stability ; bleaching				
	arom carboxylic percarboxylic; oxidn arom carboxylic percarboxylic				
IT	Bactericides, Disinfectants, and Antiseptics				
	Bleaching agents				
	Oxidizing agents				
	(aromatic peroxydicarboxylic acid-containing carboxylic acid-hydrogen peroxide solns. as)				
IT	<i>Candida albicans</i>				
	(infection with, benzoic acid anhydride-glutaric acid anhydride-hydrogen peroxide-containing solution for prevention of)				
IT	Anhydrides				
	Carboxylic acids, uses and miscellaneous				
	RL: BIOL (Biological study)				
	(aryl, in disinfection , oxidation, and/or bleaching agents)				
IT	Carboxylic acids, biological studies				
	RL: BIOL (Biological study)				

(aryl, peroxy, in **disinfection**, oxidation, and/or bleaching agents)

IT 7722-84-1
 RL: BIOL (Biological study)
 (bleaching agents, aromatic peroxy carboxylic acid-containing carboxylic acid-hydrogen peroxide solns. as)

IT 93-59-4
 RL: BIOL (Biological study)
 (bleaching or **disinfection** or oxidation agents containing benzoic acid and)

IT 93-97-0, Benzoic acid anhydride
 RL: BIOL (Biological study)
 (**disinfection** or bleaching or oxidation agents containing)

IT 28317-46-6, **Perglutaric acid**
 RL: BIOL (Biological study)
 (in bleaching or **disinfection** or oxidation agents containing benzoic and perbenzoic acids)

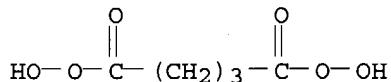
IT 65-85-0, biological studies
 RL: BIOL (Biological study)
 (in bleaching or **disinfection** or oxidation agents containing perbenzoic acid)

IT 108-55-4 7722-84-1, biological studies
 RL: BIOL (Biological study)
 (in bleaching or **disinfection** or oxidation agents from aromatic peroxy carboxylic acids and corresponding carboxylic acids)

IT 28317-46-6, **Perglutaric acid**
 RL: BIOL (Biological study)
 (in bleaching or **disinfection** or oxidation agents containing benzoic and perbenzoic acids)

RN 28317-46-6 HCAPLUS

CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 46 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1987:140145 HCAPLUS
 DN 106:140145
 ED Entered STN: 01 May 1987
 TI Dry bleach and **stable** enzyme granular composition
 IN Herdeman, Robert William
 PA Procter and Gamble Co., USA
 SO Eur. Pat. Appl., 18 pp.
 CODEN: EPXXDW

DT Patent
 LA English
 IC ICM C11D003-386
 ICS C11D003-39
 CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 206418	A2	19861230	EP 1986-201055	19860618 <--
	EP 206418	A3	19881117		
	EP 206418	B1	19911113		
	R: BE, DE, FR, GB, IT, LU, NL				
	AU 8659322	A1	19870108	AU 1986-59322	19860627 <--
	AU 585031	B2	19890608		
	JP 62079296	A2	19870411	JP 1986-151359	19860627 <--

CA 1285508 A1 19910702 CA 1986-512635 19860627 <--
 US 4767557 A 19880830 US 1987-131294 19871209 <--
 PRAI US 1985-750569 19850628 <--
 AB Storage-stable compns. are prepared which comprise peroxy acid
 bleach-containing granules and granules containing enzymes, alkaline buffer
 salt,
 cellulosic filler, and binder. In some cases, the enzyme-containing granules
 also contain an antioxidant (e.g., Na₂SO₃), CaCl₂ or another compatible
 inorg. salt, and/or a coating of water-insol. waxy nonionic material. The
 granular compns. are useful in detergent formulations. Granules were
 prepared from proteolytic enzyme 4, amylase 1, alkaline buffer salt (KHCO₃ 20,
 Na₂SO₃ 5, and CaCl₂-NaCl 20 parts) 45, cellulose powder 20,
 poly(vinylpyrrolidone) 5, and waxy polyethylene glycol (coating) 25%. The
 granules were used in mixts. with bleach granules containing
 diperoxydodecanedioic acid.
 ST enzyme stabilizer buffer bleach; peroxy bleach enzyme
 stability; potassium bicarbonate stabilizer enzyme;
 proteinase stabilizer buffer bleach; amylase stabilizer
 buffer bleach; antioxidant inorg stabilizer enzyme
 IT Buffer substances and systems
 (alkaline, stabilizers, for enzymes in granules)
 IT Stabilizing agents
 (buffer substances, for enzyme granules)
 IT Waxes and Waxy substances
 RL: USES (Uses)
 (enzyme granules coated with, storage-stable)
 IT Detergents
 (enzyme granules for use with peroxy acid bleach granules in,
 stable)
 IT Bleaching agents
 (peroxy acids, storage-stable enzyme granules for use with)
 IT Antioxidants
 (sodium sulfite and thiosulfate, enzyme granules containing, stable
)
 IT Alcohols, compounds
 RL: USES (Uses)
 (ethoxylated, enzyme granules coated with, storage-stable)
 IT 7631-90-5, Sodium bisulfite 7757-83-7, Sodium sulfite
 7772-98-7, Sodium thiosulfate
 RL: USES (Uses)
 (antioxidants, enzyme granules containing, storage-stable)
 IT 66280-55-5, Diperoxy dodecane dioic acid
 RL: USES (Uses)
 (bleach granules containing, storage-stable enzyme granules for
 use with)
 IT 144-55-8, Sodium bicarbonate, uses and miscellaneous 298-14-6,
 Potassium bicarbonate 497-19-8, Disodium carbonate, uses and
 miscellaneous 584-08-7, Dipotassium carbonate 7320-34-5
 , Tetrapotassium pyrophosphate
 RL: USES (Uses)
 (buffers, enzyme granules containing, storage-stable)
 IT 57-10-3, Palmitic acid, uses and miscellaneous 31566-31-1, Glycerol
 monostearate
 RL: USES (Uses)
 (enzyme granules coated by, storage-stable)
 IT 25322-68-3, Polyethylene glycol
 RL: USES (Uses)
 (enzyme granules coated with, storage-stable)
 IT 7778-18-9, Calcium sulfate 10043-52-4, Calcium chloride,
 uses and miscellaneous
 RL: USES (Uses)
 (enzyme granules containing, storage-stable)
 IT 9000-92-4, Amylase 9001-92-7, Proteinase

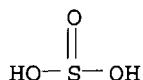
IT RL: USES (Uses)
 (granules containing, storage-**stable**, for use with peroxy acid
 bleach)

IT 7757-83-7, Sodium sulfite 7772-98-7, Sodium thiosulfate

RN RL: USES (Uses)
 (antioxidants, enzyme granules containing, storage-**stable**)

RN 7757-83-7 HCPLUS

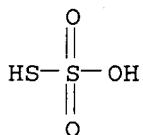
CN Sulfurous acid, disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

RN 7772-98-7 HCPLUS

CN Thiosulfuric acid (H₂S₂O₃), disodium salt (9CI) (CA INDEX NAME)



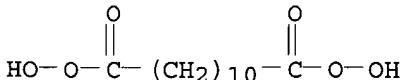
●2 Na

IT 66280-55-5, Diperoxy dodecane dioic acid

RL: USES (Uses)
 (bleach granules containing, storage-**stable** enzyme granules for
 use with)

RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)

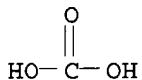


IT 144-55-8, Sodium bicarbonate, uses and miscellaneous
 497-19-8, Disodium carbonate, uses and miscellaneous
 584-08-7, Dipotassium carbonate 7320-34-5,
 Tetrapotassium pyrophosphate

RL: USES (Uses)
 (buffers, enzyme granules containing, storage-**stable**)

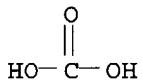
RN 144-55-8 HCPLUS

CN Carbonic acid monosodium salt (8CI, 9CI) (CA INDEX NAME)



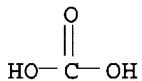
● Na

RN 497-19-8 HCPLUS
 CN Carbonic acid disodium salt (8CI, 9CI) (CA INDEX NAME)



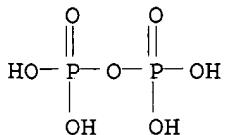
●2 Na

RN 584-08-7 HCPLUS
 CN Carbonic acid, dipotassium salt (8CI, 9CI) (CA INDEX NAME)



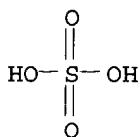
●2 K

RN 7320-34-5 HCPLUS
 CN Diphosphoric acid, tetrapotassium salt (9CI) (CA INDEX NAME)



●4 K

IT 7778-18-9, Calcium sulfate 10043-52-4, Calcium chloride,
 uses and miscellaneous
 RL: USES (Uses)
 (enzyme granules containing, storage-**stable**)
 RN 7778-18-9 HCPLUS
 CN Sulfuric acid, calcium salt (1:1) (8CI, 9CI) (CA INDEX NAME)



● Ca

RN 10043-52-4 HCPLUS
 CN Calcium chloride (CaCl₂) (9CI) (CA INDEX NAME)

Cl—Ca—Cl

L85 ANSWER 47 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1984:456025 HCPLUS

DN 101:56025

ED Entered STN: 18 Aug 1984

TI Stable emulsions

PA Nippon Synthetic Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC C09J003-14; B01F017-52; C08K005-00

ICA C08F002-00

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 58217571	A2	19831217	JP 1982-101041	19820611 <--
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PRAI JP 1982-101041 19820611 <--

AB Compns. are prepared by adding ≥1 waterproofing agents selected from radical initiators, oxidizing agents, isocyanates, epoxides, ammonium salts, and metal salts of polymerizable monomers to an emulsion stabilized with acetoacetylated poly(vinyl alc.) (I) [39290-68-1] as protective colloid. The compns. afford excellent waterproofing properties and are useful for preparing adhesives for paper, wood, and plastics. Thus, an emulsion was prepared by polymerizing vinyl acetate

in the presence of I, H₂O, tartaric acid, and H₂O₂ and mixing with wheat flour 7, CaCO₃ 5, and peroxy succinic acid [2279-96-1] 5 parts.

ST acetoacetylated polyvinyl alc **stabilizer** emulsion; paper adhesive; wood adhesive; plastic adhesive; waterproofing agent polyvinyl acetate adhesive; peroxy succinic acid waterproofing adhesive; epoxide waterproofing adhesive

IT Adhesives

(**stabilized** emulsions for, containing waterproofing agents)

IT Oxidizing agents

(waterproofing agents, for **stabilized** vinyl resin emulsions for preparing adhesives)

IT Epoxides

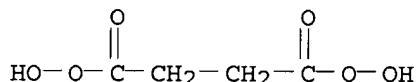
RL: PREP (Preparation)

(waterproofing agents, for **stabilizing** vinyl resin emulsions for adhesive preparation)

IT Waterproofing

(agents, for **stabilized** vinyl resin emulsions for preparing adhesives)

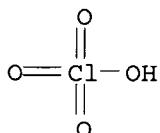
- IT 9003-20-7 24937-78-8 25067-01-0
 RL: USES (Uses)
 (emulsions, containing **stabilizer** and waterproofing agent, for adhesive preparation)
- IT 39290-68-1
 RL: USES (Uses)
 (vinyl resin emulsions **stabilized** by, containing waterproofing agents, for adhesive preparation)
- IT 574-09-4 2224-15-9 **2279-96-1** 7727-54-0 **7786-30-3**,
 uses and miscellaneous 12125-02-9, uses and miscellaneous
13477-36-6 26471-62-5 27043-36-3
 RL: USES (Uses)
 (waterproofing agents, for **stabilizing** vinyl resin emulsions for adhesive preparation)
- IT **2279-96-1** **7786-30-3**, uses and miscellaneous
13477-36-6
 RL: USES (Uses)
 (waterproofing agents, for **stabilizing** vinyl resin emulsions for adhesive preparation)
- RN 2279-96-1 HCPLUS
- CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



- RN 7786-30-3 HCPLUS
 CN Magnesium chloride (MgCl₂) (9CI) (CA INDEX NAME)

Cl-Mg-Cl

- RN 13477-36-6 HCPLUS
 CN Perchloric acid, calcium salt (8CI, 9CI) (CA INDEX NAME)



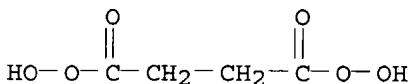
● 1/2 Ca

- L85 ANSWER 48 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1984:176134 HCPLUS
 DN 100:176134
 ED Entered STN: 26 May 1984
 TI Adhesives for wood
 PA Nippon Synthetic Chemical Industry Co., Ltd., Japan
 SO Jpn. Kokai Tokyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

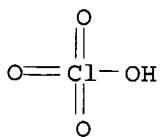
IC C09J003-14; B27G011-00; C08J003-06
 CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s) : 43

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59001581	A2	19840106	JP 1982-112328	19820628 <--
PRAI	JP 1982-112328		19820628	<--	
AB	Adhesives for wood comprise an emulsion of a vinyl acetate (I) resin, acetoacetylated poly(vinyl alc.) (II), and isocyanate compds., epoxy compds., radical-forming compds., oxidizing agents, and/or acids. Thus, 100 parts I and 8 parts 5% aqueous solution of (NH ₄) ₂ S ₂ O ₈ was added dropwise to a solution of 8 parts 7.8 mol% acetoacetylated II (average d. p. 1800) in 136 parts H ₂ O at 75° during 3.5 h. After 1 h, 10 parts di-Bu phthalate was added to the mixture to give an emulsion. TDI [26471-62-5] 5, ethylene glycol diglycidyl ether [2224-15-9] 5 glycerol diglycidyl ether [27043-36-3] 5, peroxy succinic acid [2279-96-1] 5, (NH ₄) ₂ S ₂ O ₈ 1, benzoin Et ether [574-09-4] 5, Ca(ClO ₄) ₂ 2, or oxalic acid [144-62-7] 2 parts were added to the emulsion to give an adhesive.				
ST	vinyl acetate polymer adhesive wood; polyvinyl alc acetoacetate adhesive; butyl phthalate adhesive; TDI adhesive; ethylene glycol glycidyl ether adhesive; glycerol glycidyl ether adhesive; ammonium persulfate adhesive; benzoin ethyl ether adhesive; oxalic acid adhesive; peroxy succinic acid adhesive				
IT	Adhesives (vinyl acetate polymers, for wood)				
IT	9003-20-7	24937-78-8	25067-01-0	RL: TEM (Technical or engineered material use); USES (Uses) (adhesives, prepared in presence of poly(vinyl alc.) acetoacetate, for wood)	
IT	39290-68-1	RL: USES (Uses) (protective colloid, vinyl acetate polymers prepared in presence of, as adhesives for wood)			
IT	144-62-7, uses and miscellaneous 7727-54-0 13477-36-6	574-09-4 26471-62-5	2224-15-9 27043-36-3	2279-96-1	
IT	RL: USES (Uses) (vinyl acetate polymer adhesives containing, for wood)				
IT	2279-96-1 13477-36-6				
IT	RL: USES (Uses) (vinyl acetate polymer adhesives containing, for wood)				
RN	2279-96-1	HCAPLUS			
CN	Butanediperoxoic acid (9CI) (CA INDEX NAME)				



RN 13477-36-6 HCAPLUS
 CN Perchloric acid, calcium salt (8CI, 9CI) (CA INDEX NAME)



● 1/2 Ca

L85 ANSWER 49 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1983:91421 HCPLUS

DN 98:91421

ED Entered STN: 12 May 1984

TI Composition and method for bleaching and **disinfecting** textiles

IN Kuzel, Peter; Schwab, Heinrich

PA Degussa A.-G., Fed. Rep. Ger.

SO Ger. Offen., 26 pp.

CODEN: GWXXBX

DT **Patent**

LA German

IC D06L003-02; C11D003-395; C11D003-48

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI DE 3121242	A1	19830105	DE 1981-3121242	19810529 <--
PRAI DE 1981-3121242		19810529		<--

AB Textiles are bleached and **disinfected** by treatment with an aqueous bath containing a mixture of Na perborate or Na percarbonate and ≥1 peroxy carboxylic acid. Thus, a detergent composition containing 16.7 part Na perborate and 2-4 parts **diperazelaic acid** (I) [1941-79-3] was used to wash a wine-stained cotton textile at 60° to give a change in reflectance of 16.2% vs. a similar composition not containing I. This composition left no residual bacteria in a contaminated textile at 20° for 30 min, vs. contamination when I was omitted.

ST bactericide bleaching compn textile; washing bleaching
disinfecting compn; perborate peroxy acid bleaching bactericide

IT Bleaching

(disinfecting and, of textiles, washing compns. containing sodium perborate and diperoxy acids as)

IT **Bactericides, Disinfectants, and Antiseptics**

(sodium perborate-d peroxy carboxylic acids, for washing compns.)

IT 1941-79-3 11138-47-9 66280-55-5

RL: USES (Uses)

(bleaching-disinfecting washing compns. containing, for textiles)

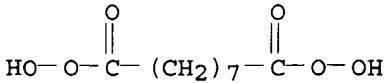
IT 1941-79-3 66280-55-5

RL: USES (Uses)

(bleaching-disinfecting washing compns. containing, for textiles)

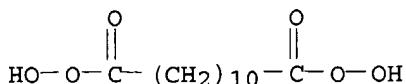
RN 1941-79-3 HCPLUS

CN Nonanediperoxoic acid (9CI) (CA INDEX NAME)



RN 66280-55-5 HCPLUS

CN Dodecanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 50 OF 53 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1980:64807 HCAPLUS

DN 92:64807

ED Entered STN: 12 May 1984

TI Storage-**stable** mixture producing an antimicrobial solution in water

IN Eggensperger, Heinz; Beilfuss, Wolfgang; Nolte, Helmut

PA Schuelke und Mayr G.m.b.H., Fed. Rep. Ger.

SO Ger. Offen., 15 pp. Adon. to Ger. Offen. 2,655,599.

CODEN: GWXXBX

DT **Patent**

LA German

IC A61L013-00

CC 63-8 (Pharmaceuticals)

FAN.CNT 1

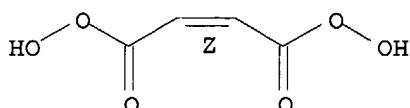
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2815400	A1	19791018	DE 1978-2815400	19780410 <--
PRAI	DE 1978-2815400		19780410		<--
AB A mixture, stable in storage, which gave a solution with antimicrobial activity in H ₂ O, contained a material decomposing to H ₂ O ₂ and 1 or more odorless or nearly so carboxylic acid anhydrides, m. ≥40°, which dissolve in H ₂ O to give nearly odorless carboxylic acids. These were converted with H ₂ O ₂ into nearly odorless H ₂ O-soluble peroxy carboxylic acids with good antimicrobial activity. Thus, a mixture of maleic anhydride [108-31-6] 10, Na percarbonate [3313-92-6] 15, Na polyphosphate 25, and Na₂SO₄ kept 5 mo, then dissolved in H ₂ O, gave 1.45% H ₂ O ₂ and 9.51% permaleic acid [4565-24-6]; omitting the Na₂SO₄ and using 75 g Na polyphosphate gave a solution with 1.30% H ₂ O ₂ and 8.77% permaleic acid. The bactericidal activity of solns. of maleic or glutaric acid anhydride and Na percarbonate in H ₂ O was tabulated.					
ST maleic anhydride mixt percarbonate bactericidal; glutaric anhydride mixt percarbonate bactericidal; storage stable bactericide; percarbonate mixt glutaric maleic anhydride					
IT Bactericides, Disinfectants and Antiseptics (storage stable peracids, in solution)					
IT Carboxylic acids, biological studies RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (peroxy, bactericides, in storage stable mixts.)					
IT 4565-24-6 RL: FORM (Formation, nonpreparative) (formation of, in water, for stabilizing bactericide solns.)					
IT 7757-82-6, biological studies RL: BIOL (Biological study) (stabilizer , for bactericidal composition)					
IT 3313-92-6 RL: BIOL (Biological study) (storage stable bactericide composition containing anhydrides and)					
IT 108-31-6, biological studies 108-55-4 RL: BIOL (Biological study) (storage stable bactericide composition containing percarbonate and)					
IT 4565-24-6 RL: FORM (Formation, nonpreparative)					

(formation of, in water, for **stabilizing** bactericide solns.)

RN 4565-24-6 HCPLUS

CN 2-Butenediperoxoic acid, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



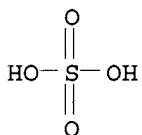
IT 7757-82-6, biological studies

RL: BIOL (Biological study)

(stabilizer, for bactericidal composition)

RN 7757-82-6 HCPLUS

CN Sulfuric acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

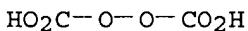
IT 3313-92-6

RL: BIOL (Biological study)

(storage **stable** bactericide composition containing anhydrides and)

RN 3313-92-6 HCPLUS

CN Peroxydicarbonic acid, disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L85 ANSWER 51 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1979:534709 HCPLUS

DN 91:134709

ED Entered STN: 12 May 1984

TI **Disinfectants** based on peracid-splitting compounds

AU Eggensperger, H.

CS Schuelke und Mayr G.m.b.H., Norderstedt, Fed. Rep. Ger.

SO Zentralblatt fuer Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, Abteilung 1: Originale, Reihe B: Hygiene, Krankenhaushygiene, Betriebshygiene, Praeventive Medizin (1979), 168(5-6), 517-24

CODEN: ZHPMAT; ISSN: 0300-9661

DT Journal

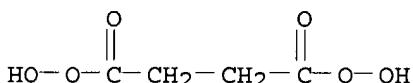
LA German

CC 3-2 (Biochemical Interactions)

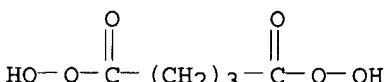
AB Peroxycarboxylic acids exhibit antimicrobial and **disinfectant** activities as a result of their oxidative effects, and these activities were determined for several preps. against a variety of organisms and under different conditions. Organic peracids for **disinfectants** use were

best prepared immediately prior to application by combining the organic acids with a peroxide source and then using the resultant equilibrium system. The bactericidal activities of several peroxy carboxylic acids were superior to those of H₂O₂.

ST peroxy carboxylate antimicrobial **disinfectant**; carboxylate peroxy antimicrobial **disinfectant**
 IT **Bactericides, Disinfectants and Antiseptics**
 (peroxy carboxylic acids as)
 IT Carboxylic acids, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (peroxy, antimicrobial and **disinfectant** activity of)
 IT 79-21-0 93-59-4 2279-96-1 28317-46-6 71427-18-4
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (antimicrobial activity of)
 IT 71427-25-3
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (antimicrobial and **disinfectant** activity of)
 IT 7722-84-1, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (bactericidal activity of, peroxy carboxylic acids in relation to)
 IT 2279-96-1 28317-46-6
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (antimicrobial activity of)
 RN 2279-96-1 HCPLUS
 CN Butanediperoxoic acid (9CI) (CA INDEX NAME)



RN 28317-46-6 HCPLUS
 CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



L85 ANSWER 52 OF 53 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1978:152037 HCPLUS
 DN 88:152037
 ED Entered STN: 12 May 1984
 TI Aqueous **perglutaric acid** solution
 IN Eggensperger, Heinz; Beilfuss, Wolfgang
 PA Schuelke und Mayr G.m.b.H., Fed. Rep. Ger.
 SO Ger., 5 pp.
 CODEN: GWXXAW
 DT **Patent**
 LA German
 IC C07C179-10
 CC 23-16 (Aliphatic Compounds)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2654164	B1	19771222	DE 1976-2654164	19761130 <--
	DE 2654164	C2	19780810		
	CH 635576	A	19830415	CH 1977-11780	19770927 <--
	AT 7707115	A	19790915	AT 1977-7115	19771005 <--
	AT 356289	B	19800425		
	FI 7703245	A	19780531	FI 1977-3245	19771031 <--
	FI 60099	B	19810831		
	FI 60099	C	19811210		
	NL 7712569	A	19780601	NL 1977-12569	19771115 <--
	NL 188641	B	19920316		
	NL 188641	C	19920817		
	SE 7712986	A	19780531	SE 1977-12986	19771117 <--
	SE 440848	B	19850826		
	SE 440848	C	19851205		
	BE 860976	A1	19780316	BE 1977-182746	19771118 <--
	FR 2371930	A1	19780623	FR 1977-35167	19771123 <--
	FR 2371930	B1	19800822		
	NO 7704063	A	19780531	NO 1977-4063	19771128 <--
	NO 140346	B	19790507		
	NO 140346	C	19790815		
	BR 7707882	A	19780711	BR 1977-7882	19771128 <--
	ZA 7707072	A	19780927	ZA 1977-7072	19771128 <--
	US 4129517	A	19781212	US 1977-855461	19771128 <--
	CA 1081079	A1	19800708	CA 1977-292034	19771129 <--
	DK 7705317	A	19780531	DK 1977-5317	19771130 <--
	JP 53081619	A2	19780719	JP 1977-143824	19771130 <--

PRAI DE 1976-2654164 19761130 <--

AB Aqueous perglutaric acid solns. stabilized by excess H₂O₂ and urea or pyridinedicarboxylic acids, useful as disinfectants, oxidizing reagents, and bleaching agents, were prepared from glutaric anhydride. Peracid solns. prepared similarly from maleic or succinic anhydrides were not as stable.

ST perglutaric acid stabilizer; bactericide
perglutaric acid; disinfectant
perglutaric acid; oxidant perglutaric acid; bleaching perglutaric acid; glutaric acid hydrogen peroxide

IT Bactericides, Disinfectants and Antiseptics
Bleaching agents
(perglutaric acid)

IT 3851-97-6P 28317-46-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and bactericidal properties of)

IT 57-13-6, uses and miscellaneous 89-00-9 499-83-2
RL: USES (Uses)

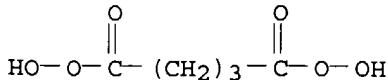
(stabilizer, for perglutaric acid solns.)

IT 28317-46-6P

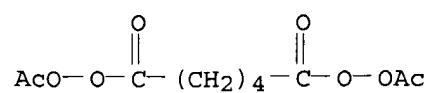
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and bactericidal properties of)

RN 28317-46-6 HCPLUS

CN Pentanediperoxoic acid (9CI) (CA INDEX NAME)



ED Entered STN: 22 Apr 2001
 TI Diperoxycarboxylic anhydrides and their urea adducts as peroxy acid precursors
 AU Heslinga, L.; Schwaiger, W.
 CS Unilever Res. Lab., Vlaardingen, Neth.
 SO Recueil des Travaux Chimiques des Pays-Bas (1966), 85(1), 75-85
 CODEN: RTCPA3; ISSN: 0165-0513
 DT Journal
 LA English
 CC 33 (Aliphatic Compounds)
 AB Unbranched aliphatic diperoxycarboxylic acids of short chain length were included in urea (I) by acetylation in the presence of I. Diacetic diperoxycarboxylic anhydrides thus **stabilized** react with aqueous H₂O₂ at room temperature to give mixts. of AcOOH and diperoxycarboxylic acid in high yield. Thus, (HOOCCH₂)₂ (2.5 g.) was mixed with 9.2 g. urea and 3 g. Ac₂O was added with vigorous stirring. The reaction temperature rose from 20 to 40°. The mixture was stirred one hr. at 35° and HOAc was removed in vacuo over KOH until constant weight was achieved to give (AcOOOCCH₂)₂ (II) as a I inclusion compound. Degree of inclusion was almost quant. and active O was 90% of theory. Similarly prepared were the I inclusion compds. of AcOOOC(CH₂)₄COOOAc (III) and AcOOOC(CH₂)₇COOOAc. Weight ratio of hexagonal I to included peroxy acid was invariably 2.8. III was isolated from its inclusion compound by extraction from ice-water with Et₂O.
 The extract was dried over Na₂SO₄ and evaporated and the **crystallization** residue **recrystd.** from 1:2 EtOAc-petroleum ether to give pure III which exploded on grinding or exposing to a naked flame, m. 61-2°, and had an active O content of 121 mg./g. The I inclusion compound of H was not shock or heat sensitive. Perhydrolysis of the inclusion peroxyanhydrides in alkaline perborate solution (pH 10) at 20° gave the mixed peroxy acids in yields of 69 to 92% as determined by iodometric titration. Non-included (HOOC(CH₂)₂COO)₂ also formed peroxy acids under these conditions while n-acyl peroxides did not.
 IT Chemical compounds
 (clathrate, of diacyl peroxides and urea)
 IT X-rays
 (diffraction of, by urea inclusion compds. with diacyl peroxides)
 IT Explosions
 (of adipolybis[acetyl peroxide], urea inclusion compound prevention of)
 IT Peroxide, adipoylbis[acetyl, compound with urea
 Urea, compds. of, with azelaoylbis[acetyl peroxide]
 Urea, compds. of, with succinylbis[acetyl peroxide]
 IT 57-13-6, Urea
 (compds. of, with acetyl lauroyl peroxide)
 IT 57-13-6, Urea
 (compds. of, with adipolbis[acetyl peroxide])
 IT 105-74-8, Lauroyl peroxide 123-23-9, Peroxide, bis(3-carboxypropionyl)
 762-16-3, Octanoyl peroxide 5762-50-5, Peroxide, acetyl
 3-carboxypropionyl 5762-51-6, Peroxide, succinylbis[acetyl, compound with
 urea 6039-31-2, Peroxide, acetyl lauroyl, compound with urea
 6039-32-3, Peroxide, adipoylbis[acetyl 6166-48-9, Peroxide,
 azelaoylbis[acetyl, compound with urea
 (preparation of)
 IT 6039-32-3, Peroxide, adipoylbis[acetyl
 (preparation of)
 RN 6039-32-3 HCAPLUS
 CN Peroxide, (1,6-dioxo-1,6-hexanediyi)bis[acetyl (9CI) (CA INDEX NAME)



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